

Series 07 **L915**

Millennium Series™ Commercial Wheelchair Lifts

Including models:

▪ L915	▪ L915IB
▪ L915F	▪ L915FIB
▪ L916	▪ L916IB
▪ L916F	▪ L916FIB
▪ L917	▪ L917IB
▪ L917F	▪ L917FIB
▪ L918	▪ L918IB
▪ L918F	▪ L918FIB
▪ L919	▪ L919IB
▪ L919F	▪ L919FIB

and Special Order L915 Series Lift Models

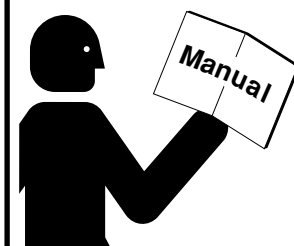


"Providing Access to the World"®

International Corporate Hdqrs: P.O. Box 310 Winamac, IN 46996 USA
1-800-THE LIFT (574) 946-6153 FAX: (574) 946-4670



⚠ WARNING



Read manual
before installing
or servicing lift.
Failure to do so
may result in
serious bodily
injury and/or
property damage.

Braun Millennium Series™

30469

May 2004

Patent #5,261,779

Patent #5,806,632

Patent #6,065,924

Patent #6,238,169

Patent #6,464,447

Patent #6,599,079

Patent #6,692,217

Patents Pending

complying with **ADA** Americans With
Disabilities Act

Congratulations

We at The Braun Corporation wish to express our fullest appreciation on your new purchase. With you in mind, our skilled craftsmen have designed and assembled the finest lift available.

This manual includes safety precautions, installation instructions, maintenance instructions and instructions for troubleshooting, if needed.

Braun Millennium Series™ lifts are built for dependability and will provide years of pleasure and independence as long as the lift is installed and serviced as specified by a Braun certified technician, and the lift is operated by an instructed person.

Sincerely,
THE BRAUN CORPORATION

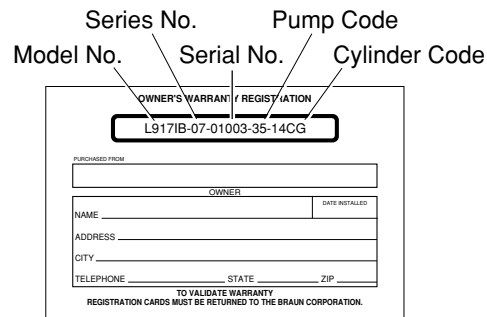


Ralph W. Braun
Chief Executive Officer

Warranty and Registration Instructions

Immediately upon receiving the lift, examine the unit for any damage. Notify the carrier at once with any claims.

Two warranty/registration cards (shown right) are located in the lift-mounted manual storage pouch. The sales representative must process one of the cards. The consumer must fill out the other card and mail it to The Braun Corporation. The warranty is provided on the back cover of this manual. The **warranty cards must be processed to activate the warranty.**

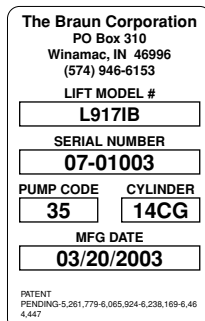


The card is titled "OWNER'S WARRANTY / REGISTRATION" and contains the following information:

- Series No. L917IB
- Pump Code 07
- Serial No. 01003
- Cylinder Code 35-14CG
- Model No. (blank)
- PURCHASED FROM (blank)
- OWNER (blank)
- NAME (blank)
- DATE INSTALLED (blank)
- ADDRESS (blank)
- CITY (blank)
- TELEPHONE (blank)
- STATE (blank)
- ZIP (blank)
- TO VALIDATE WARRANTY, REGISTRATION CARDS MUST BE RETURNED TO THE BRAUN CORPORATION.

Sample Warranty/Registration Card

Two Braun Serial No./Series No. identification tags (shown below) are posted on the lift. One I.D. tag is posted on the pump side vertical arm. A second I.D. tag is located on the opposite pump side tower. Both I.D. tags provide the product identification information provided on the Warranty/Registration card. Record the information in the space provided (or document on a copy). **This information must be provided when filing a warranty claim or ordering parts.**



The tag contains the following information:

- The Braun Corporation
- PO Box 310
- Winamac, IN 46996
- (574) 946-6153
- LIFT MODEL #
- L917IB
- SERIAL NUMBER
- 07-01003
- PUMP CODE 35
- CYLINDER 14CG
- MFG DATE
- 03/20/2003
- PATENT PENDING 5,281,779-6,065,924-6,238,169-6,464,447

Sample Serial No./Series No. Identification Tag

Model No. _____

Series No. _____

Serial No. _____

Pump Code _____

Cylinder Code _____

Date of Manufacture _____

Braun Corporation Product Bulletin

Subject: L915 Millennium Series™ 08 Lift Models

Effective: October 2003

Series 08 L915 Series lifts feature a new Unfold/Down and Up/Fold microswitch assembly. The microswitch assembly consists of an aluminum extrusion mounting block, UHMW sliding microswitch mounts and stainless steel adjustment screws for improved reliability (less need for infield adjustment). One piece molded electrical connectors take the place of the three single wire terminals previously connected to each microswitch (decreases potential of a wire being disconnected). Further microswitch details are provided on page 16 of this supplement.

Supplement 30563 addresses Series 08 technical information. An electrical schematic, a wiring diagram, pump module exploded views and lift exploded views applicable for L915 Millennium Series™ 08 lift models are provided.

The Braun Serial No./Series No. Identification Tag is posted on the opposite pump side tower. Note the lift model number and the series number.

Disregard this supplement if you are installing or servicing a Series 07 lift model. If you are installing or servicing a Series 08 lift model, **read this supplement as well as all information contained in this manual** (and additional supplements if included) before servicing the lift or ordering replacement parts.

Lift Installation: Install the lift as detailed in the Lift Installation Instructions provided in manual 30469.

Service: Refer to this supplement when troubleshooting a Millennium Series™ 08 lift model or ordering replacement parts.

Call 1-800-THE LIFT if you have any questions regarding this bulletin.

All illustrations, descriptions and specifications in this supplement are based on the latest product information available at the time of publication. The Braun Corporation reserves the right to make changes at any time without notice.

Series 08 L915 Supplement Contents

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Series 08 Lift Exploded Views

42" Floor-to-Ground Automatic Inboard Roll Stop IB Lift Models (L915IB, L915FIB, L918IB and L918FIB) Repair Parts List	8
Exploded View (Fold Out)	9A, 10A

48" Floor-to-Ground **Automatic** Inboard Roll Stop

IB Lift Models (L916IB, L916FIB, L917IB, L917FIB, L919IB and L919FIB) Exploded View (Fold Out)	9B, 10B
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42" Floor-to-Ground **Fixed** Inboard Roll Stop

Non-IB Lift Models (L915, L915F, L918 and L918F) Repair Parts List	12
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48" Floor-to-Ground **Fixed** Inboard Roll Stop

Non-IB Lift Models (L916, L916F, L917, L917F, L919 and L919F) Exploded View (Fold Out)	13B, 14B
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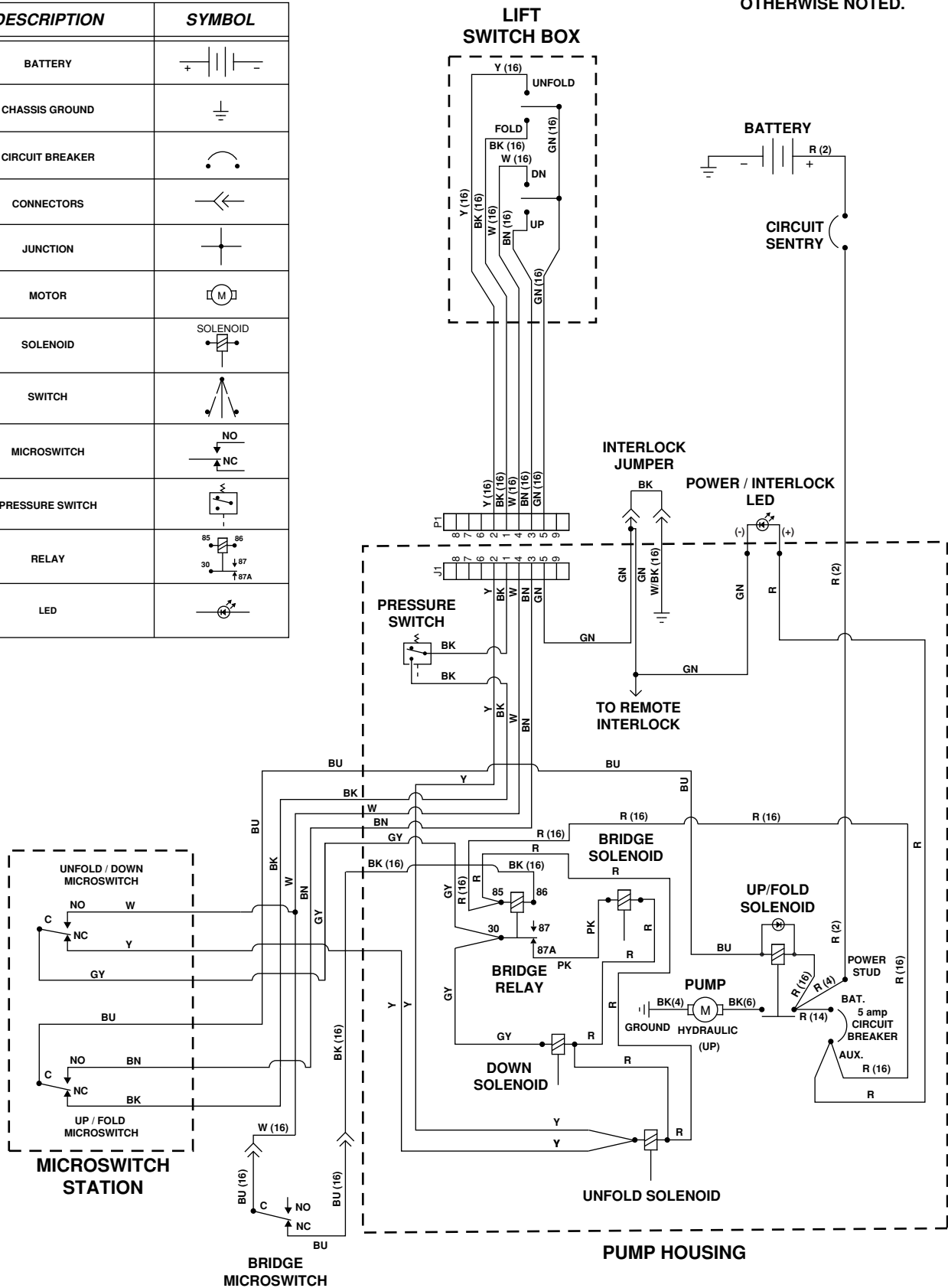
Series 08 Unfold/Down and Up/Fold Microswitches	16
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Series 08 L915 Electrical Schematic

Note: Shown with lift in stowed position.

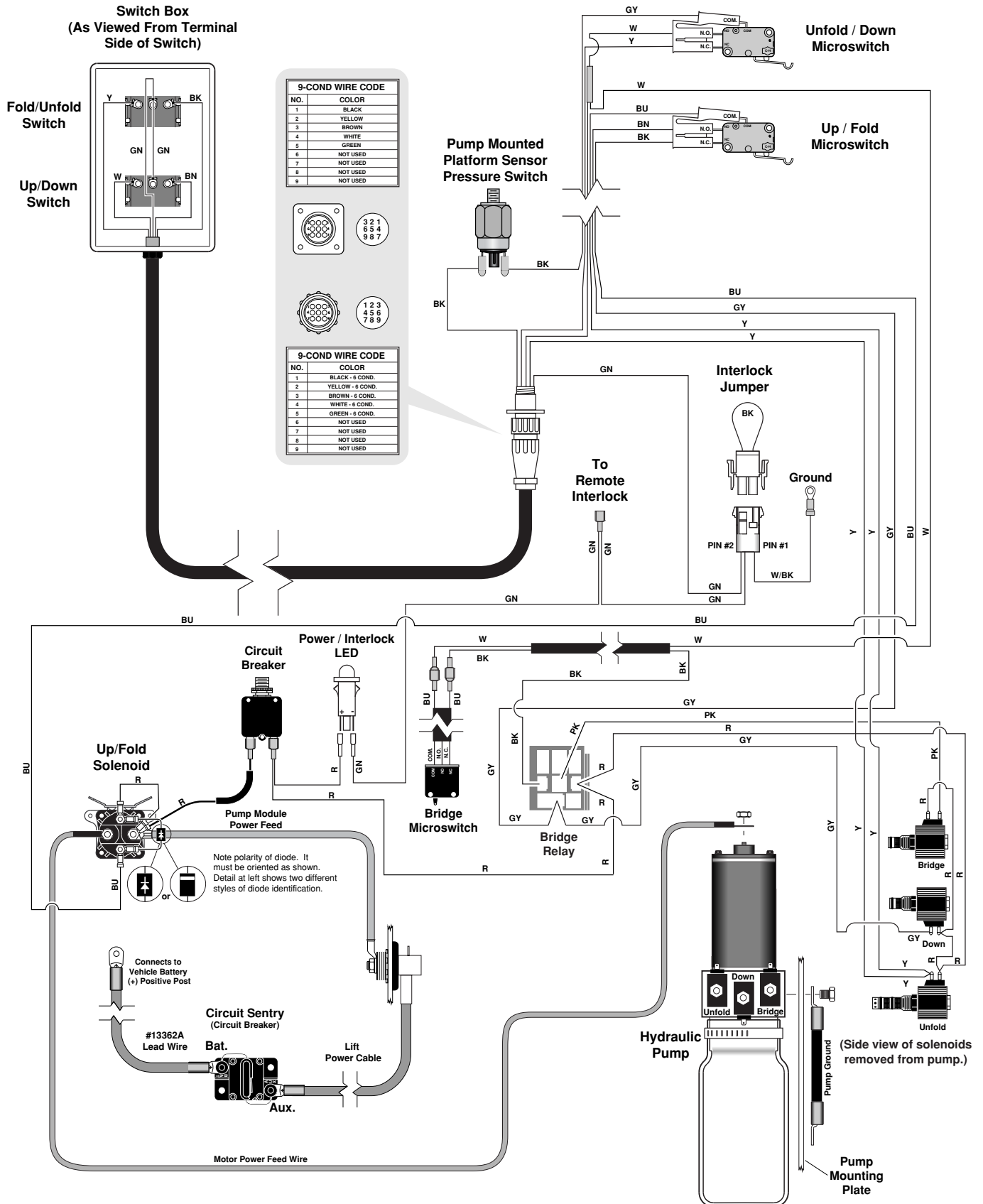
NOTE: ALL WIRES 20 GA. UNLESS OTHERWISE NOTED.

DESCRIPTION	SYMBOL
BATTERY	
CHASSIS GROUND	
CIRCUIT BREAKER	
CONNECTORS	
JUNCTION	
MOTOR	
SOLENOID	
SWITCH	
MICROSWITCH	
PRESSURE SWITCH	
RELAY	
LED	



Series 08 L915 Wiring Diagram

Note: Shown with lift in stowed position.



Millennium Series™ 08 L915 Supplement 30563

Series 08 L915 Rear Pump Module Parts List

Item	Qty.	Description	L915, L915IB	L916, L916IB
			L918, L918IB	L917, L917IB
			Part No.	Part No.
	1	Pump Module (complete), 12 Volt, Rear	915R8516BQD	915R8516BQD
1	1	Pump Assembly - Bridge, Prestolite (M268BP with Reservoir/with Backup pump)	25597A12V-A6	25597A12V-A6
2	2	Fitting, 7/16"-20 O-Ring Male / 7/16"-20 JIC 37° Male	24504	24504
3	1	Elbow, 7/16"-20 JIC 37° Female Swivel (1) / 7/16"-20 JIC 37° Male (2)	26579	26579
4	1	Switch, Pressure	26577	26577
5	1	Retainer, Push On	28805	28805
6	1	See Control Box Assembly and Harness Options ✕ See note below		
7	1	See Control Box Assembly and Harness Options ✕ See note below		
8	1	Control Box, Bracket-mount (Items 9, 10 and 11) ✕ See note below	16970A	16970A
9	1	Control Box (only) ✕ See note below	16932	16932
10	1	Clip, Bracket-Mount ✕ See note below	16933	16933
11	3	Screw, #6-20 x 1-1/4", Pan Head, Phillips ✕ See note below	16945	16945
12	1	Face Plate and Switch Assembly ✕ See note below	17909A-05	17909A-05
13	1	Face Plate ✕ See note below	16931-05	16931-05
14	1	Switch, S.P.D.T., Rocker (Unfold/Fold) - Orange ✕ See note below	17332	17332
15	1	Switch, S.P.D.T., Rocker (Down/Up) - Red ✕ See note below	16942	16942
16	4	Screw, #6-20 x 3/4", Pan Head, Phillips ✕ See note below	24739	24739
17	1	Strain Relief (SR 7W-2) ✕ See note below (7A, 7B and 7C only)	11352	11352
18	1	Cover, Switch Box ✕ See note below	26798	26798
19	1	Plate, Backing / Mounting, Rear	975R0501	975R0501
20	1	Harness, Pump Module ✕ See note below	918R8914BQD	915R8914BQD
21	4	Snap Rivet, .122" x .197/.236", Nylon, Black ✕ See note below	29874	29874
22	1	Jumper, Interlock	15708A	15708A
23	1	Relay, 30 Amp, S.P.D.T., 12 Volt	18087	18087
24	1	Pop Rivet, SD64BS, 3/16"	11513	11513
25	1	Washer, #10 Flat	11541	11541
26	2	Washer, 5/16" Flat	10063	10063
27	1	Cable, Ground - 36" ✕ See note below	26161A	26161A
28	2	Bolt, 5/16"-18 x 1/2", Nylock, Hex ✕ See note below	10012	10012
29	2	Bolt, 5/16"-18 x 3/4" w/Nylock Patch ✕ See note below	29608	29608
30	1	Solenoid, Up - Prestolite Short / 100 Amp - 12V	28308	28308
31	1	Jumper, 16 Gauge	800-2000	800-2000
32	1	Diode Assembly, Up Solenoid	73906A	73906A
33	1	Power Cable, Millennium - Up Solenoid to Motor	29049	29049
34	1	Washer, 5/16" External Tooth	16368	16368
35	1	Cable, Pump Module Hookup / Power	26082A-4	26082A-4
36	1	Harness, Up Solenoid / Circuit Breaker	25809A	25809A
37	1	Circuit Breaker, 5 Amp, Manual Reset	25736	25736
38	1	Stud, Power Feed	26084	26084
39	1	Cable, Lift Power, 37' with Loom ✕ See note below	205-0712-37	205-0712-37
40	1	Rubber Boot, Red ✕ See note below	82046	82046
41	1	Clamp, Hose	29663	29663
42	1	Diode, Green LED - Pannel Mount	29545	29545
43	1	Recepticle, Clip on	28803	28803
44	1	Cover, Pump, 2pc. - Back / Bottom - Rear Pump	915R5513B	915R5513B
45	1	Handle, Pump - w/Grip	17206A	17206A
46	1	Cover, Pump, 2pc. - Top / Front Assembly - Rear Pump (Includes Items 47 - 57)	915R5513TA	915R5513TA
47	1	Cover, Pump, 2pc. - Top / Front - Rear Pump	915R5513T	915R5513T
48	1	Clip, Pump Handle - Top	915-5517	915-5517
49	1	Washer, Nylon, 1/4" I.D. x 11/16" O.D. x .030"	12690	12690
50	3	Rivet, Pop, SD43BS - 1/8" - .13/.19"	12954	12954
51	1	Clip, Pump Handle - Bottom	915-5518	915-5518
52	1	Stud, Wing Head - 1/4 Turn	28804	28804
53	1	Decal, Removal Instruction - Pump Handle (Not shown - see Decal Section)	29052	29052
54	1	Decal, Hydraulic Pressure Switch Instruction and Warning (Not shown - see Decal Section)	27154	27154
55	1	Decal, Manual Hand Pump Instruction (Not shown - see Decal Section)	29082	29082
56	1	Decal, Pump Cover Installation / Removal (Not shown - see Decal Section)	29051	29051
57	1	Decal, Pressure Relief Warning (Not shown - see Decal Section)	22249	22249

Control Box Assembly and Harness Options

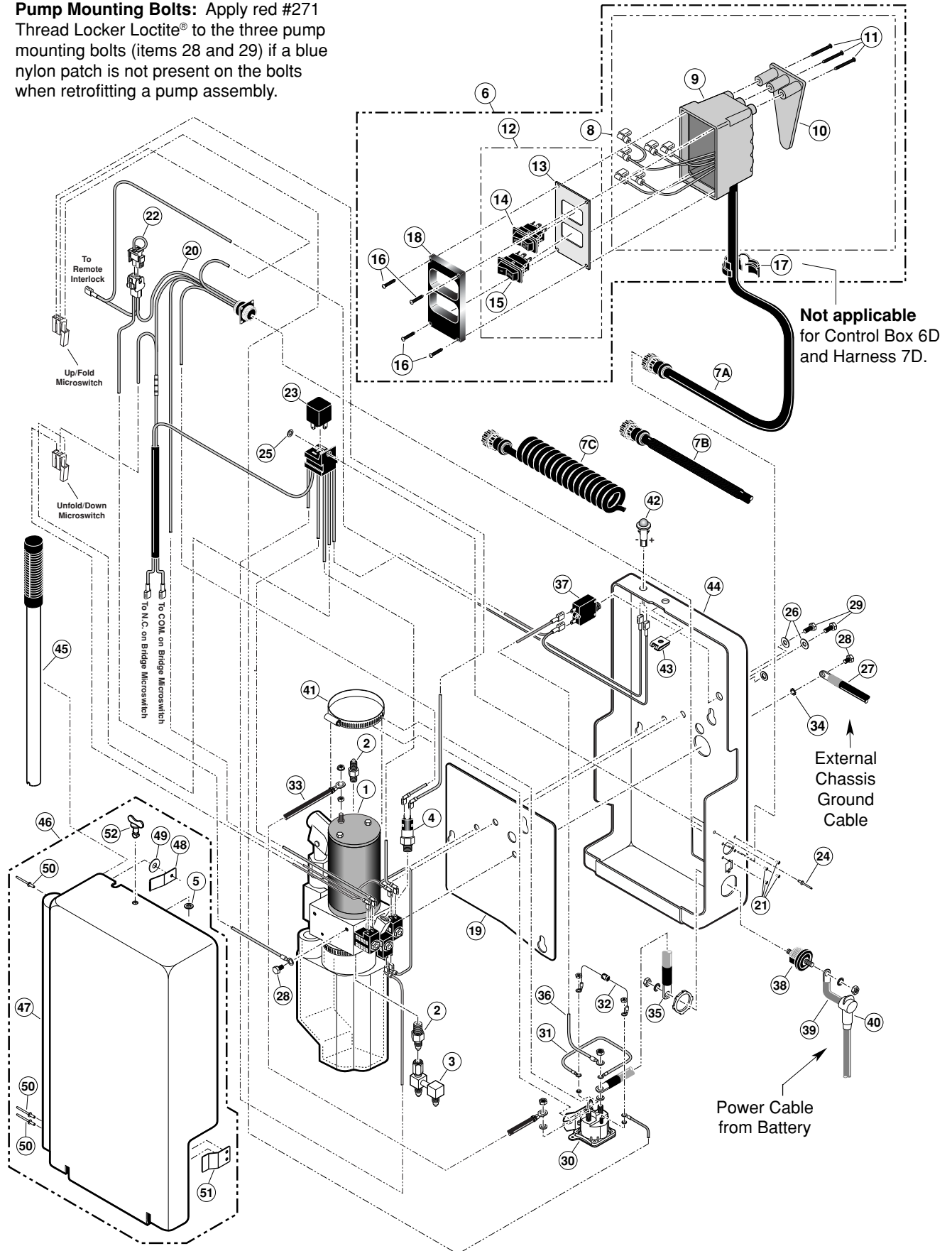
Item	Qty.	Description	Part No.
6A	1	Control Box Assembly (with Standard Quick Disconnect Harness) ✕ See Note Below	900-0903AQD
6B	1	Control Box Assembly (with Armored Quick Disconnect Harness) ✕ See Note Below	900-0903AQDA
6C	1	Control Box Assembly (with Coiled Quick Disconnect Harness) ✕ See Note Below	900-0903AQDC
6D	1	Control Box Assembly (with 7' Long, 18 Ga. , Quick Disconnect Harness) ✕ See Note Below (not shown)	900-5903AQD
7A	1	Harness, Standard , Quick Disconnect (without control box) ✕ See Note Below	900-0902AQD
7B	1	Harness, Armored , Quick Disconnect (without control box) ✕ See Note Below	900-0902AQDA
7C	1	Harness, Coiled , Quick Disconnect (without control box) ✕ See Note Below	900-0902AQDC
7D	1	Harness, 7' Long, 18 Ga. , Quick Disconnect (without control box) ✕ See Note Below (not shown)	900-5902AQD

✕ Indicates items available for replacement part purposes **only**. These items **are not** included with replacement pump modules.

* Apply red #271 Thread Locker Loctite® to the three pump mounting bolts (items 28 and 29) if a blue nylon patch is not present on the bolts when retrofitting a pump assembly. Loctite® is available from The Braun Corporation under part number 11522-1.

Series 08 L915 Rear Pump Module Diagram

Pump Mounting Bolts: Apply red #271 Thread Locker Loctite® to the three pump mounting bolts (items 28 and 29) if a blue nylon patch is not present on the bolts when retrofitting a pump assembly.



Millennium Series™ 08 L915 Supplement 30563

Series 08 L915 Front Pump Module Parts List

Item	Qty.	Description	L915F, L915FIB		L916F, L916FIB	
			L917F, L917FIB		L918F, L918FIB	
			L919F, L919FIB			
			Part No.		Part No.	
	1	Pump Module (complete), 12 Volt, Front	915F8516IBQD		915F8516IBQD	
1	1	Pump Assembly - Bridge, Prestolite (M268BP with Reservoir/with Backup pump)	25597A12V-A6		25597A12V-A6	
2	2	Fitting, 7/16"-20 O-Ring Male / 7/16"-20 JIC 37° Male	24504		24504	
3	1	Elbow, 7/16"-20 JIC 37° Female Swivel (1) / 7/16"-20 JIC 37° Male (2)	26579		26579	
4	1	Switch, Pressure	26577		26577	
5	1	Retainer, Push On	28805		28805	
6	1	See Control Box Assembly and Harness Options ✕ See note below				
7	1	See Control Box Assembly and Harness Options ✕ See note below				
8	1	Control Box, Bracket-mount (Items 9, 10 and 11) ✕ See note below	16970A		16970A	
9	1	Control Box (only) ✕ See note below	16932		16932	
10	1	Clip, Bracket-Mount ✕ See note below	16933		16933	
11	3	Screw, #6-20 x 1-1/4", Pan Head, Phillips ✕ See note below	16945		16945	
12	1	Face Plate and Switch Assembly ✕ See note below	17909A-05		17909A-05	
13	1	Face Plate ✕ See note below	16931-05		16931-05	
14	1	Switch, S.P.D.T., Rocker (Unfold/Fold) - Orange ✕ See note below	17332		17332	
15	1	Switch, S.P.D.T., Rocker (Down/Up) - Red ✕ See note below	16942		16942	
16	4	Screw, #6-20 x 3/4", Pan Head, Phillips ✕ See note below	24739		24739	
17	1	Strain Relief (SR 7W-2) ✕ See note below (7A, 7B and 7C only)	11352		11352	
18	1	Cover, Switch Box ✕ See note below	26798		26798	
19	1	Plate, Backing / Mounting, Rear	975R0501		975R0501	
20	1	Harness, Pump Module ✕ See note below	918R8914IBQD		915R8914IBQD	
21	4	Snap Rivet, .122" x .197/.236", Nylon, Black ✕ See note below	29874		29874	
22	1	Jumper, Interlock	15708A		15708A	
23	1	Relay, 30 Amp, S.P.D.T., 12 Volt	18087		18087	
24	1	Pop Rivet, SD64BS, 3/16"	11513		11513	
25	1	Washer, #10 Flat	11541		11541	
26	2	Washer, 5/16" Flat	10063		10063	
27	1	Cable, Ground - 36" ✕ See note below	26161A		26161A	
28	2	Bolt, 5/16-18 x 1/2", Hex, w/Nylock Patch * See note below	10012		10012	
29	2	Bolt, 5/16-18 x 3/4", Hex, w/Nylock Patch * See note below	29608		29608	
30	1	Solenoid, Up - Prestolite Short / 100 Amp - 12V	28308		28308	
31	1	Jumper, 16 Gauge	800-2000		800-2000	
32	1	Diode Assembly, Up Solenoid	73906A		73906A	
33	1	Power Cable, Millennium - Up Solenoid to Motor	29049		29049	
34	1	Washer, 5/16" External Tooth	16368		16368	
35	1	Cable, Pump Module Hookup / Power	26082A-4		26082A-4	
36	1	Harness, Up Solenoid / Circuit Breaker	25809A		25809A	
37	1	Circuit Breaker, 5 Amp, Manual Reset	25736		25736	
38	1	Stud, Power Feed	26084		26084	
39	1	Cable, Lift Power, 37' with Loom ✕ See note below	205-0712-37		205-0712-37	
40	1	Rubber Boot, Red ✕ See note below	82046		82046	
41	1	Clamp, Hose	29663		29663	
42	1	Diode, Green LED - Pannel Mount	29545		29545	
43	1	Recepticle, Clip on	28803		28803	
44	1	Cover, Pump, 2pc. - Back / Bottom, Front Pump	915F5513B		915F5513B	
45	1	Handle, Pump - w/Grip	17206A		17206A	
46	1	Cover, Pump, 2pc. - Top / Front Assembly - Front Pump (Includes Items 47 - 57)	915F5513TA		915F5513TA	
47	1	Cover, Pump, 2pc. - Top / Front, Front Pump	915F5513T		915F5513T	
48	1	Clip, Pump Handle - Top	915-5517		915-5517	
49	1	Washer, Nylon, 1/4" I.D. x 11/16" O.D. x .030"	12690		12690	
50	3	Rivet, Pop, SD43BS - 1/8" - .13/.19"	12954		12954	
51	1	Clip, Pump Handle - Bottom	915-5518		915-5518	
52	1	Stud, Wing Head - 1/4 Turn	28804		28804	
53	1	Decal, Removal Instruction - Pump Handle (Not shown - see Decal Section)	29052		29052	
54	1	Decal, Hydraulic Pressure Switch Instruction and Warning (Not shown - see Decal Section)	27154		27154	
55	1	Decal, Manual Hand Pump Instruction (Not shown - see Decal Section)	29082		29082	
56	1	Decal, Pump Cover Installation / Removal (Not shown - see Decal Section)	29051		29051	
57	1	Decal, Pressure Relief Warning (Not shown - see Decal Section)	22249		22249	

Control Box Assembly and Harness Options

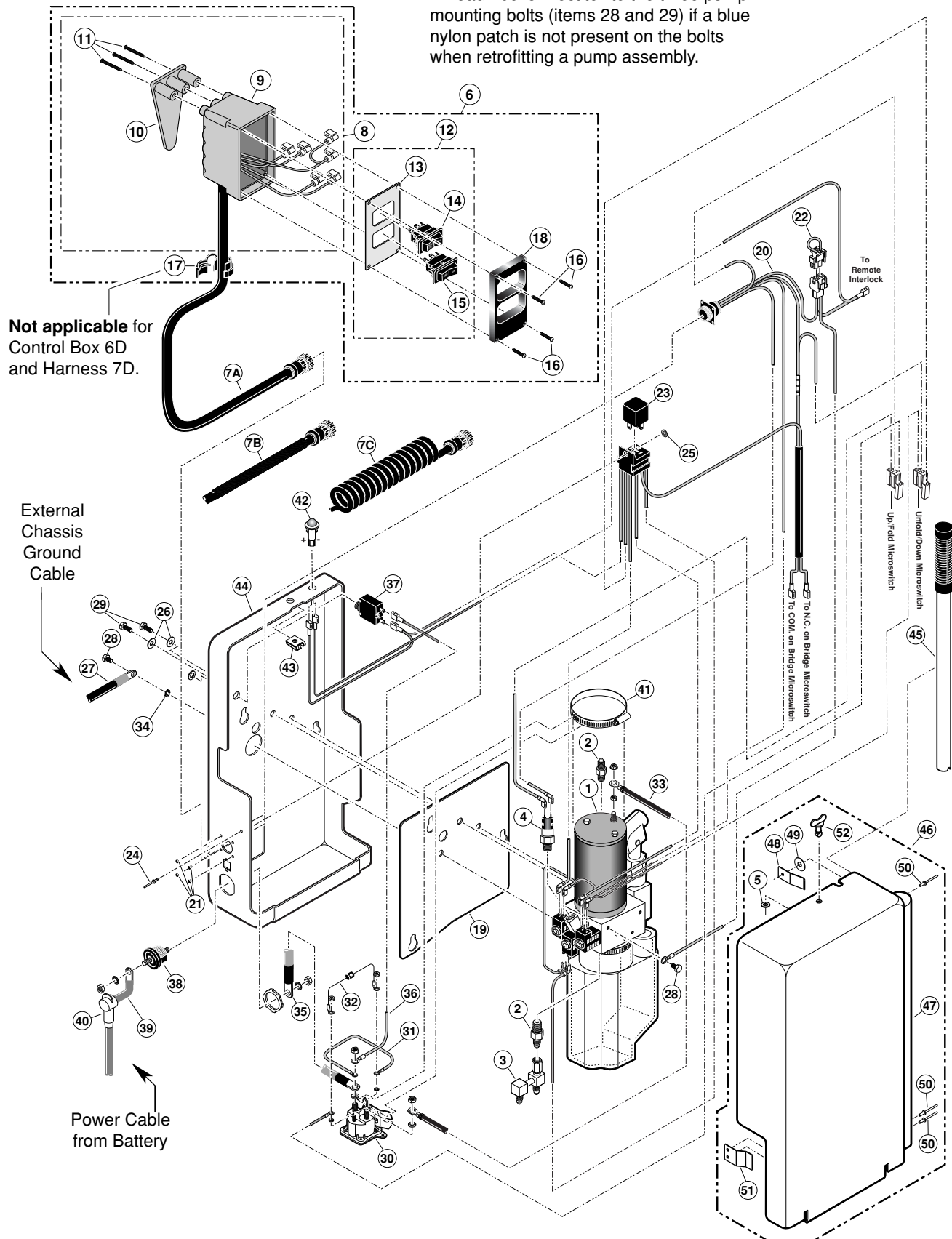
Item	Qty.	Description	Part No.
6A	1	Control Box Assembly (with Standard Quick Disconnect Harness) ✕ See Note Below	900-0903AQD
6B	1	Control Box Assembly (with Armored Quick Disconnect Harness) ✕ See Note Below	900-0903AQDA
6C	1	Control Box Assembly (with Coiled Quick Disconnect Harness) ✕ See Note Below	900-0903AQDC
6D	1	Control Box Assembly (with 7' Long, 18 Ga. , Quick Disconnect Harness) ✕ See Note Below (not shown)	900-5903AQD
7A	1	Harness, Standard , Quick Disconnect (without control box) ✕ See Note Below	900-0902AQD
7B	1	Harness, Armored , Quick Disconnect (without control box) ✕ See Note Below	900-0902AQDA
7C	1	Harness, Coiled , Quick Disconnect (without control box) ✕ See Note Below	900-0902AQDC
7D	1	Harness, 7' Long, 18 Ga. , Quick Disconnect (without control box) ✕ See Note Below (not shown)	900-5902AQD

✕ Indicates items available for replacement part purposes **only**. These items **are not** included with replacement pump modules.

* Apply red #271 Thread Locker Loctite® to the three pump mounting bolts (items 28 and 29) if a blue nylon patch is not present on the bolts when retrofitting a pump assembly. Loctite® is available from The Braun Corporation under part number 11522-1.

Series 08 L915 Front Pump Module Diagram

Pump Mounting Bolts: Apply red #271 Thread Locker Loctite® to the three pump mounting bolts (items 28 and 29) if a blue nylon patch is not present on the bolts when retrofitting a pump assembly.



Millennium Series™ 08 L915 Supplement 30563

Series 08 L915 42" Floor-to-Ground Automatic Inboard Roll Stop (IB) Repair Parts List

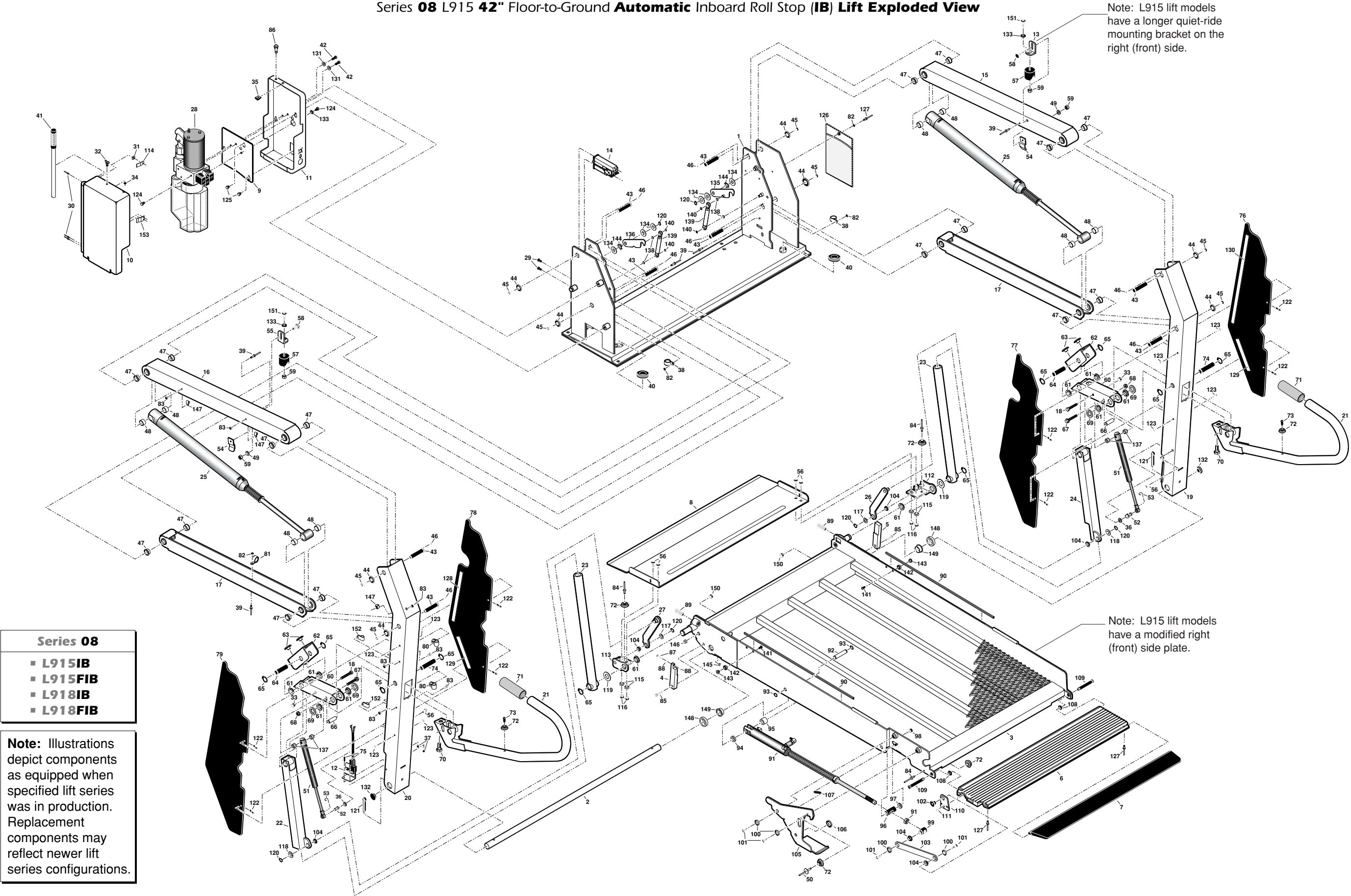
Part Numbers of Items Dedicated per Lift Model

Item	Qty.	Description	L915IB	L915FIB	L918IB	L918FIB
1	1	Base Plate Weldment	915R8142W30	915F8142W30	918R8142W33	918F8142W33
2	1	Pin, Platform Pivot	915U032430	915U032430	911-5324	911-5324
3	1	Platform Weldment	915R63050IBW	915R63050IBW	917R63350IBW	917R63350IBW
4	1	Block, Platform Stop - Bridging - Rear	25777R	915-0311	25777R	915-0311
5	1	Block, Platform Stop - Bridging - Front	915-0311	25777F	915-0311	25777F
6	1	Roll Stop (Extruded Aluminum)	915R4312-30	915R4312-30	915R4312-33	915R4312-33
7	1	Roll Stop Nose, Rubber	24603-30	24603-30	24603-33	24603-33
8	1	Bridge Plate	915U0145IB	915U0145IB	915U0148IB	915U0148IB
9	1	Plate, Backing/Mounting-Pump Module	975R0501	975R0501	975R0501	975R0501
10	1	Pump Cover, 2pc, Top-Front Assy.	915R5513TA	915F5513TA	915R5513TA	915F5513TA
11	1	Pump Cover, 2pc, Back-Bottom	915R5513B	915F5513B	915R5513B	915F5513B
12	1	Bridge Switch Assembly	25463RA	25463FA	25463RA	25463FA
13	1	Bracket, Mounting, Quiet Ride	995-2392	995-2392	915-0392	915-0392

Part Numbers of Items Identical on All Lift Models

Item	Qty.	Description	Part No.	Item	Qty.	Description	Part No.
14	1	Microswitch Assembly	975-3121A	83	7	Rivet, Snap, Black, .256/.295" Thick	26362
15A	1	Parallel Arm Weldment, Top, Front	915-0422F	84	3	Rivet, Pop, SD64BS - 3/16"	11513
15B	1	Parallel Arm Assembly, Top, Front (w/Flanged Bearings)	915-0422FA	85	2	Bolt, 5/16-18 x 1 1/4", Low Soc. Hd. Cap Scr., Bk.	26327
16A	1	Parallel Arm Weldment, Top, Rear	915-0422R	86	1	Diode, Green LED, Panel Mount	29545
16B	1	Parallel Arm Assembly, Top, Rear (w/Flanged Bearings)	915-0422RA	87	1	Screw, #8-32 x 1", Mach. Truss Head, Black	19912BK
17A	2	Parallel Arm Weldment, Bottom	975-0457W	88	2	Nut, #8-32, Hex	10777
17B	2	Parallel Arm Assembly, Bottom (w/Flanged Bearings)	975-0457A	89	2	Screw, 1/2-20 x 1 1/2", Set, Lock	18663
18	2	Bolt, 3/8-16 x 2", Hex Head, Cap	10027	90	2	Edge Liner, 1/8" U-Molding, Yellow	24045R025.75
19	1	Vertical Channel Weldment, Front	955F2442IBW	91	1	Cylinder, Roll Stop, Assembly	915-5318A
20	1	Vertical Channel Weldment, Rear	955R2442IBW	92	1	Pin, Platform Cylinder	915-0414
21	2	Handrail Weldment, ADA	915-0409WIB	93	2	Ring, Snap, 1/2", External, .035" Thick	20946
22	1	Tube Wmt., Upper Fold Arm, Rear	915-0425RW	94	1	Spacer, Flap Cylinder, .184" Thick	915-0416
23	2	Tube Wmt., Lower Fold Arm	915-0426RW	95	1	Spacer, Flap Cylinder, .700" Thick	915-0415
24	1	Tube Wmt., Upper Fold Arm, Front	915-2425FW	96	1	Pivot, Roll Stop Cylinder, Front	990-0352
25	2	Cylinder	C1514.3-9407	97	1	Washer, 4" I.D. x .810" O.D. x .12"	24536
26	1	Lever, Inboard Barrier, Wmt., Front	915-0404FW	98	1	Bolt, 3/8-16 x 3/4", Soc. Hd. Cap Screw, Bk.	26259
27	1	Lever, Inboard Barrier, Wmt., Rear	915-0404RW	99	1	Adapter, Cylinder/Roll Stop Lever	915-0344
28	1	Pump Assembly (M268 with Backup Pump)	25597A12V-A6	100	4	Adapter, Cylinder/Roll Stop Lever-Out	990-0341
29	2	Bolt, 5/16-18 x 3/4", Button Head, Soc. Cap	24440	101	4	Screw, #10-32 x 3/8", Flat Head, Hex	24537
30	3	Rivet, Pop, 1/8"-1.13"/.19"	12954	102	1	Pivot, Roll Stop Lever	24550
31	1	Washer, 1/4" I.D. x 11/16" x .030" - Nylon	12690	103	1	Lever, Roll Stop Latch (Assembly #915-0345A)	915-0345
32	1	Stud, Wing Head	28804	104	4	Bearing, Flange, 1/2" x 1/4"	24442
33	2	Nut, 3/8-16, Hex, Lock	13617	105	1	Latch, Roll Stop	915-0343R
34	1	Retainer, Push-On	28805	106	1	Spacer, UHMW, Latch	950-7760
35	1	Receptacle, Clip-On	28803	107	1	Spring, 1/4" x 1" Extension w/Hooks	10774
36	2	Washer, 3/8", Lock	10069	108	2	Bearing, Flange, 3/8" x 1/4"	24028
37	2	Nut, #4-40 with Lock Washer	19537	109	2	Pin, Clevis, 3/8" x 3", Black	24932BK
38	2	Clamp, Insulate, 1-3/8" I.D.	29765	110	1	Tab, Roll Stop, Flap Cylinder	915-2367
39	5	Rivet, Pop, SD66BS - 3/16"	14993	111	1	Screw, 10-32 x 5/8", Pan Head Phillips, Thd. Cut	26714
40	2	Grommet, Rubber, 1.25" I.D.	25916	112	1	Bridge Plate Bracket, Weldment, Front	915-0431FW
41	1	Handle, Pump (w/Grip)	17206A	113	1	Bridge Plate Bracket, Weldment, Rear	915-0431RW
42	2	Bolt, 5/16-18 x 3/4", Nylock	29608	114	1	Handle Clip, Top	915-5517
43	8	Pin, Pivot Parallel Arm	917-0403	115	4	Washer, 3/8", Lock, Black	10069BK
44	8	Washer, 1/2" Flat, Black Zinc	25346	116	4	Nut, 3/8-16, Hex, Black	10059BK
45	8	Screw, 5/16-18 x 3/4", SHFS	25527	117	2	Washer, .516" I.D. x .750" O.D. x .0250"	25336
46	8	Screw, Drive #8 x 3/16" Long, Black	24439BK	118	2	Washer, .516" I.D. x 1" O.D. x .0269"	15328
47	16	Bearing, Flange, 3/4" x 3/8", 12FDU06	24011	119	2	Washer, 1-1/4" O.D. x 3/4" I.D. x 16 Gauge	205-0710
48	8	Bushing, 3/4" I.D. x 1/2"	900-0456	120	6	Ring, Snap, 1/2", External, .050" Thick	13273
49	2	Washer, 5/16", Lock	10068	121	2	Cotter Pin, 1/4" x 2", Black	15886BK
50	1	Rivet, Pop, SD68BSLF-3/16"-.38/.50"	15244	122	8	Fastener, J-Nut, #10-24	25776
51	2	Gas Spring, Fold Arm	29186	123	8	Screw, #10-24 x 1/2", Button Head, Allen	25842
52	2	Ball Stud, Gas Spring, 13mm x 3/8-16 Female	29185	124	2	Bolt, 5/16-18 x 1/2", Nylock, Hex	10012
53	2	Clip, Safety	12608	125	2	Bolt, 3/8-16 x 3/8", Nylock, Hex	29729
54	2	Bracket, Inner Side Panel Guide	915-0703	126	1	Holder, Owner's Manual - Clear	25715
55	1	Bracket, Mounting, Quiet Ride	915-0392	127	3	Rivet, Pop, SD62BS-3/16"-.06"/.13"	11512
56	6	Bolt, 3/8-16 x 3/4", Flanged Button Hd. Socket Cap, Bk.	25171	128	2	Tape, 1" Wide Single Face Foam x 11" (1 Shown)	82015R011
57	2	Stow Block, Guided	28593	129	4	Tape, 1" Wide Single Face Foam x 8" (2 Shown)	82015R008
58	2	Bolt, 5/16-18 x 3/4", Carriage, Black	15858BK	130	2	Tape, 1" Wide Single Face Foam x 14" (1 Shown)	82015R014
59	4	Nut, 5/16-18, Hex	10058	131	2	Washer, 5/16" Flat	10063
60	2	Arm, Slide Support	915-7412	132	4	Cap, End, 1" I.D. x 1 1/4" O.D., Plastic	20474
61	10	Bearing, Flange, 3/4" x 1/4"	24012	133	3	Washer, 5/16", External Tooth	16368
62	2	Slide, Platform, Rotate, Weldment	915-0406W	134	6	Washer, .516" I.D. x 1" O.D. x .0269"	15328
63	4	Bearing, UHMW, Flat, 1.226"	205-1760	135	1	Latch Weldment, Front	27013FW
64	2	Pin, Pivot, Lower Arm	900-0413	136	1	Latch Weldment, Rear	27013RW
65	10	Ring, Snap, 3/4", External	18657	137	4	Spacer, I.B. Gas Spring	29460
66	2	Spacer, 1/2" O.D. x .334" I.D. x 1.515"	25132	138	4	O-Ring, 5/16" I.D. x 1/16"	26614
67	2	Bolt, 5/16-18 x 2", Flange, Hex	25130	139	2	Spring, Dampener, Retract	26963
68	2	Nut, 5/16-18, Serrated Flange	25131	140	4	Ring, External Snap, 5/16"	24570
69	4	Spacer, Handrail-UHMW	911-5301	141	2	Bolt, 1/4-20 x 1/2", Button Head Socket	15733
70	2	Bolt, 7/16-20 x 1", Hex	15746	142	2	Roller Assembly	1000-2395A
71	2	Grip, Handle, Yellow	19074	143	2	Roller Retainer	915-5353
72	6	Bumper, Rubber, 31/32" O.D.	10950	144	2	Washer, Finger Disc Springs	27276
73	2	Screw, #8-18 x 1/2", Self-Tap, Phillips	13583	145	1	Grommet, ID-.281", FR-.125", GD-.625", T-.375"	27725
74	2	Pin, Pivot, Handrail	900-0429	146	1	Grommet, ID-.312", FR-.250", GD-.813", T-.500"	27726
75	2	Screw, #4-40 x 5/8", Round Head	14810	147	3	Clamp, 1/4" ID, Nylon Loop, BLK	84396
76	1	Cover, Plastic, Parallel Arm, Fr - w/Tape	915-3704A	148	2	Spacer, UHMW, Vertical Channel	995-0320
77	1	Cover, Plastic, Parallel Arm, Fr, Inside - w/Tape	915-3701A	149	2	Bearing, Flange, 1" x 1/2", 16FDU08	28031
78	1	Cover, Plastic, Parallel Arm, Rr, Inside - w/Tape	915-3703A	150	2	Nut, 5/16-18, Top Lock, Black	28324BK
79	1	Cover, Plastic, Parallel Arm, Rr - w/Tape	915-3702A	151	2	Bolt, 5/16-18 x 3/4", Button Hd. Socket Cap, Bk.	24440
80	2	Clip, Cable, 7/16", Plastic	15777	152	2	Clip, Cable, 1/2", Plastic	10092
81	1	Clamp, Insulated, 5/8" I.D.	84070	153	1	Handle Clip, Bottom	915-5518
82	4	Washer, #10 Flat	11541				

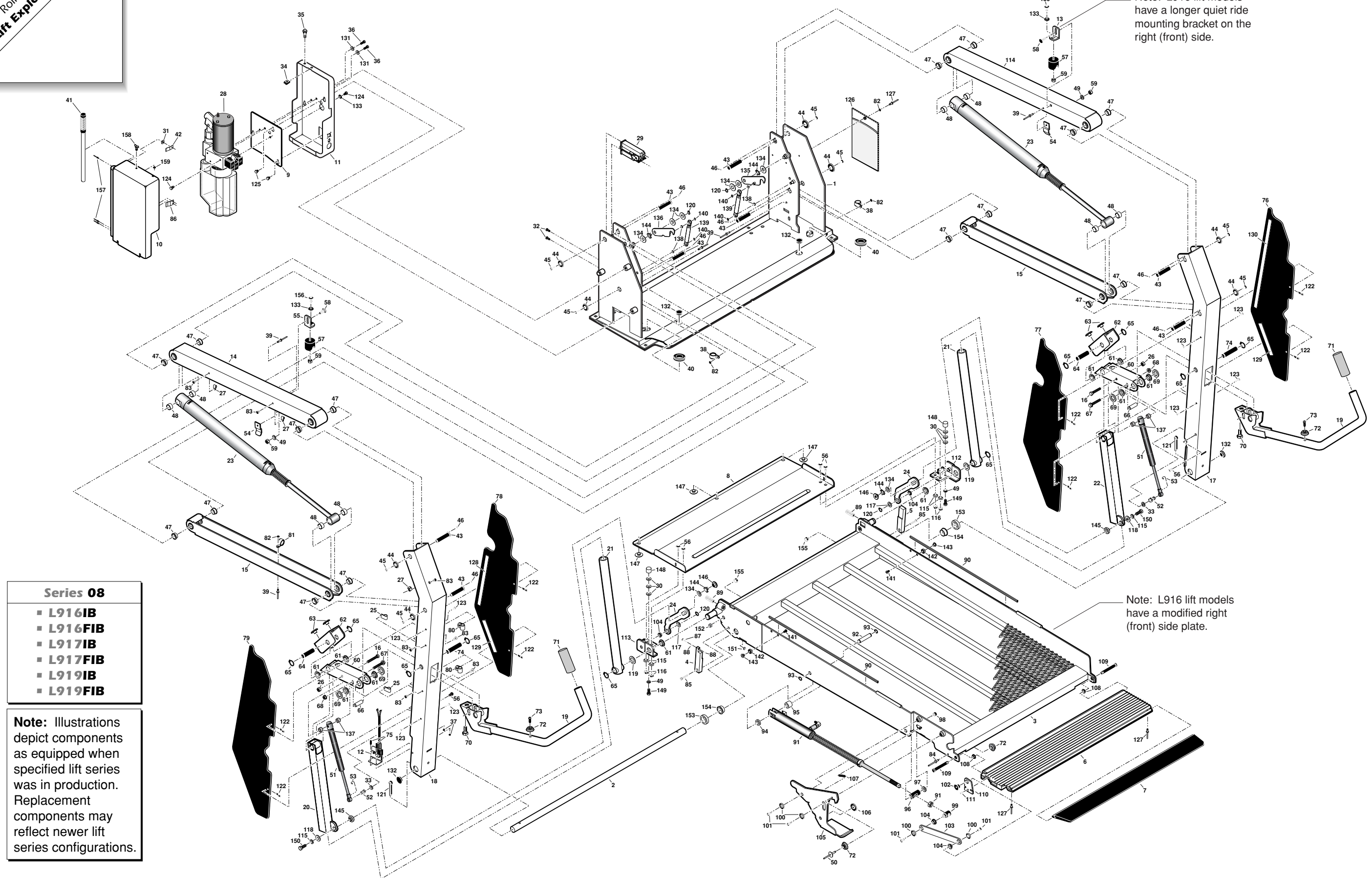
Series 08 L915 42" Floor-to-Ground Automatic Inboard Roll Stop (IB) Lift Exploded View



Unfold for Series 08
42" Floor-to-Ground
Automatic Inboard
Roll Stop (IB)
Lift Exploded View

Millennium Series™ 08 L915 Supplement 30563

Series 08 L915 48" Floor-to-Ground Automatic Inboard Roll Stop (IB) Lift Exploded View



Note: L916 lift models have a longer quiet ride mounting bracket on the right (front) side.

Note: L916 lift models have a modified right (front) side plate.

Series 08

- L916IB
- L916FIB
- L917IB
- L917FIB
- L919IB
- L919FIB

Note: Illustrations depict components as equipped when specified lift series was in production. Replacement components may reflect newer lift series configurations.

Millennium Series™ 08 L915 Supplement 30563

Series 08 L915 48" Floor-to-Ground Automatic Inboard Roll Stop (IB) Repair Parts List

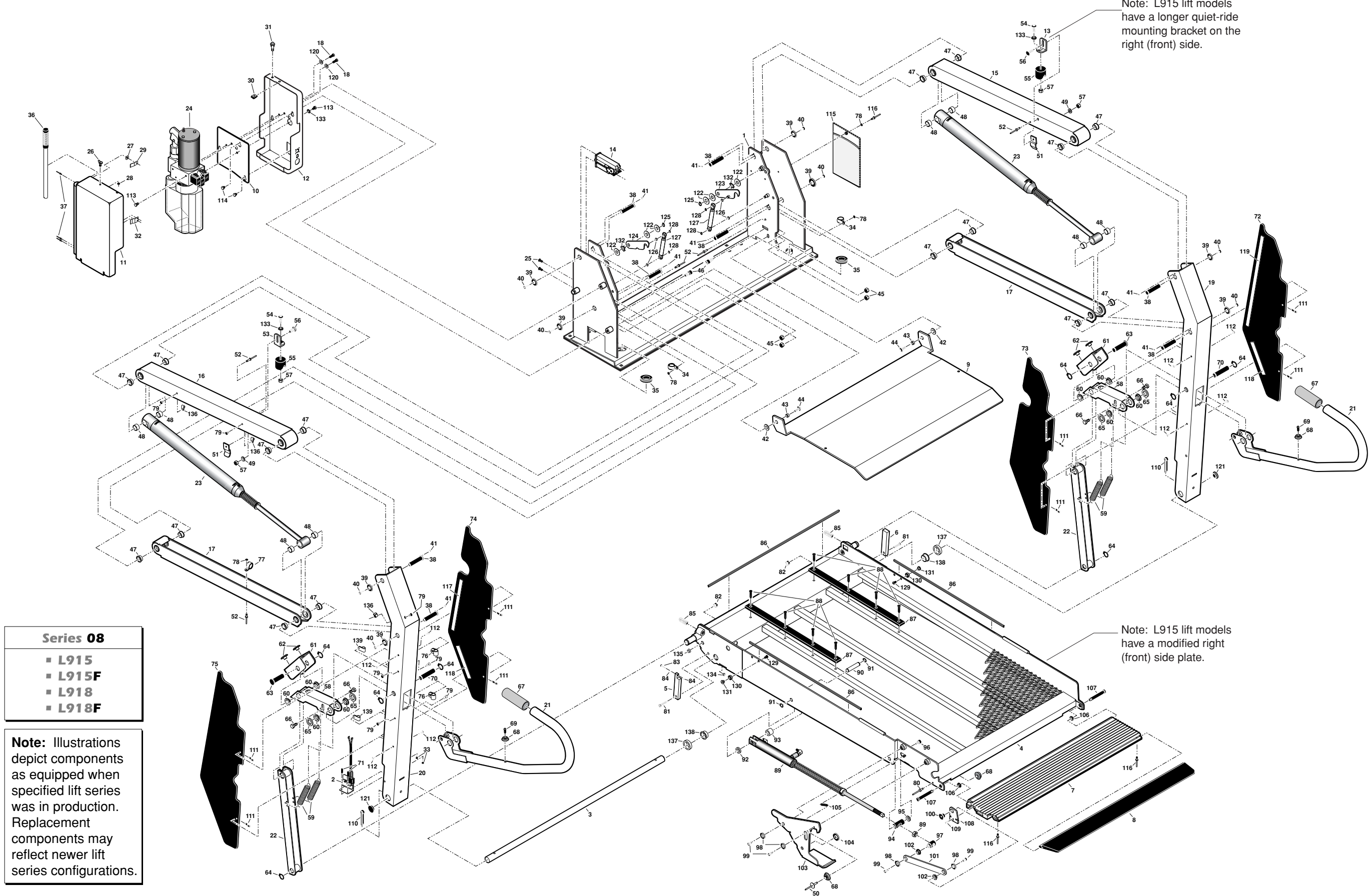
Part Numbers of Items Dedicated per Lift Model							
Item	Qty.	Description	L916IB	L916FIB	L917IB	L917FIB	L919IB
1	1	Base Plate Weldment	916R8148W30	916F8148W30	917R8148W33	917F8148W33	919R8148W34
2	1	Pin, Platform Pivot	915U032430	915U032430	911-5324	911-5324	911-5324-31
3	1	Platform Weldment	915R63050IBW	915R63050IBW	917R63350IBW	917R63350IBW	919R63450IBW
4	1	Block, Platform Stop - Bridging - Rear	25777R	915-0311	25777R	915-0311	25777R
5	1	Block, Platform Stop - Bridging - Front	915-0311	25777F	915-0311	25777F	915-0311
6	1	Roll Stop (Extruded Aluminum)	915R4312-30	915R4312-30	915R4312-33	915R4312-33	915R4312-34
7	1	Roll Stop Nose, Rubber	24603-30	24603-30	24603-33	24603-33	24603-34
8	1	Bridge Plate	915U0146IB	915U0146IB	915U0147IB	915U0147IB	915U0147IB-34
9	1	Plate, Backing/Mounting-Pump Module	975R0501	975F0501	975R0501	975F0501	975F0501
10	1	Pump Cover, 2Pc., Top-Front Assy.	915R5513TA	915F5513TA	915R5513TA	915F5513TA	915F5513TA
11	1	Pump Cover, 2Pc., Back-Bottom	915R5513B	915F5513B	915R5513B	915F5513B	915F5513B
12	1	Bridge Switch Assembly	25463RA	25463FA	25463RA	25463FA	25463FA
13	1	Bracket, Mounting, Quiet Ride	995-2392	995-2392	915-2392	915-2392	915-2392
Part Numbers of Items Identical on All Lift Models							
Item	Qty.	Description	Part No.	Item	Qty.	Description	Part No.
14A	1	Parallel Arm Weldment, Top, Rear	915-0437R	87	1	Screw, #8-32 x 1", Mach. Truss Head, Black	19912BK
14B	1	Parallel Arm Assembly, Top, Rear (w/Flanged Bearings)	915-0437RA	88	2	Nut, #8-32, Hex	10777
15A	2	Parallel Arm Weldment, Bottom	975-0458W	89	2	Screw, 1/2-20 x 1 1/2", Set, Lock	18663
15B	2	Parallel Arm Assembly, Bottom, (w/Flanged Bearings)	975-0458A	90	2	Edge Liner, 1/8" U-Molding, Yellow	24045R025.75
16	2	Bolt, 3/8-16 x 2" Hex Head Cap	10027	91	1	Cylinder, Roll Stop, Assembly	915-5318A
17	1	Vertical Channel Weldment, Front	955F2448IBW	92	1	Pin, Platform Cylinder	915-0414
18	1	Vertical Channel Weldment, Rear	955R2448IBW	93	2	Ring, Snap, 1/2", External, .035" Thick	20946
19	2	Handrail Weldment, ADA	916-0409WIB	94	1	Spacer, Flap Cylinder, .184" Thick	915-0416
20	1	Tube Wmt., Upper Fold Arm, Rear	916-0425RW	95	1	Spacer, Flap Cylinder, .700" Thick	915-0415
21	2	Tube Wmt., Lower Fold Arm	916-0426RW	96	1	Pivot, Roll Stop Cylinder, Front	990-0352
22	1	Tube Wmt., Upper Fold Arm, Front	916-2425FW	97	1	Washer, .4" I.D. x .810" O.D. x .12"	24536
23	2	Cylinder	C1514.3-9408	98	1	Bolt, 3/8-16 x 3/4", Soc. Hd. Cap Screw, Bk.	26259
24	2	Lever, Inboard Barrier, Wmt.	975-0404	99	1	Adapter, Cylinder/Roll Stop Lever	915-0344
25	2	Clip, Cable, 1/2", Plastic	10092	100	4	Adapter, Cylinder/Roll Stop Lever-Out	990-0341
26	2	Nut, 3/8-16, Hex, Lock	13617	101	4	Screw, #10-32 x 3/8", Flat Head, Hex	24537
27	3	Clamp, 1/4" ID, Nylon Loop, BLK	84396	102	1	Pivot, Roll Stop Lever	24550
28	1	Pump Assembly (M268 with Backup Pump)	25597A12V-A6	103	1	Lever, Roll Stop Latch (Assembly #915-0345A)	915-0345
29	1	Microswitch Assembly	975-3121A	104	4	Bearing, Flange, 1/2" x 1/4"	24442
30	6	Washer, 1/4" Flat	10062	105	1	Latch, Roll Stop	915-0343R
31	1	Washer, 1/4" I.D. x 11/16" x .030" - Nylon	12690	106	1	Spacer, UHMW, Latch	950-7760
32	2	Bolt, 5/16-18 x 3/4", Button Head Soc. cap	24440	107	1	Spring, 1/4" x 1" Extension w/Hooks	10774
33	2	Washer, 3/8" Lock	10069	108	2	Bearing, Flange, 3/8" x 1/4"	24028
34	1	Receptacle, Clip-On	28803	109	2	Pin, Clevis, 3/8" x 3", Black	24932BK
35	1	Diode, Green LED, Panel Mount	29545	110	1	Tab, Roll Stop, Flap Cylinder	915-2367
36	2	Bolt, 5/16-18 x 3/4" Nylock	29608	111	1	Screw, 10-32 x 5/8", Pan Head Phillips, Thd. Cut	26714
37	2	Nut, #4-40 with Lock Washer	19537	112	1	Bridge Plate Bracket, Weldment, Front	916-5431FW
38	2	Clamp, Insulate, 1 3/8" I.D.	29765	113	1	Bridge Plate Bracket, Weldment, Rear	916-5431RW
39	5	Rivet, Pop, SD66BS - 3/16"	14993	114A	1	Parallel Arm Weldment, Top, Front	915-0437F
40	2	Grommet, Rubber, 1.25" I.D.	25916	114B	1	Parallel Arm Assembly, Top, Front (w/Flanged Bearings)	915-0437FA
41	1	Handle, Pump (w/Grip)	17206A	115	6	Washer, 3/8", Lock, Black	10069BK
42	1	Handle Clip, Top	915-5517	116	4	Nut, 3/8-16, Hex, Lock, Black	13617
43	8	Pin, Pivot Parallel Arm	917-0403	117	2	Washer, .516" I.D. x .750" O.D. x .0250"	25336
44	8	Washer, 1/2" Flat, Black Zinc	25346	118	2	Washer, 3/8", Flat, Auto/BK	10064
45	8	Screw, 5/16-18 x 3/4", SHFS	25527	119	2	Washer, .060" x .76" x 1.25" O.D., Auto/BK	27734
46	8	Screw, Drive #8 x 3/16" Long, Black	24439BK	120	4	Ring, Snap, 1/2", External, .050" Thick	13273
47	16	Bearing, Flange, 3/4" x 3/8", 12FDU06	24011	121	2	Cotter Pin, 1/4" x 2", Black	15886BK
48	8	Bushing, 3/4" I.D. x 1/2"	900-0456	122	8	Fastener, J-Nut, #10-24	25776
49	4	Washer, 5/16", Lock	10068	123	8	Screw, #10-24 x 1/2", Button Head, Allen	25842
50	1	Rivet, Pop, SD68BSLF-3/16"-38"/.50"	15244	124	2	Bolt, 5/16-18 x 1/2", Nylock, Hex	10012
51	2	Gas Spring, Fold Arm	29186	125	2	Bolt, 3/8-16 x 3/8", Nylock, Hex	29729
52	2	Ball Stud, Gas Spring, 13mm x 3/8-16 Female	29185	126	1	Holder, Owner's Manual - Clear	25715
53	2	Clip, Safety	12608	127	3	Rivet, Pop, SD62BS-3/16"-06"/.13"	11512
54	2	Bracket, Inner Side Panel Guide	915-0703	128	2	Tape, 1" Wide Single Face Foam x 11" (1 Shown)	82015R011
55	1	Bracket, Mounting, Quiet Ride	915-0392	129	4	Tape, 1" Wide Single Face Foam x 8" (2 Shown)	82015R008
56	6	Bolt, 3/8-16 x 3/4", Flanged Button Hd. Socket Cap, Bk.	25171	130	2	Tape, 1" Wide Single Face Foam x 14" (1 Shown)	82015R014
57	2	Stow Block, Guided	28593	131	2	Washer, 5/16" Flat	10063
58	2	Bolt, 5/16-18 x 3/4", Carriage, Black	15858BK	132	4	Cap, End, 1" I.D. x 1 1/4" O.D., Plastic	20474
59	4	Nut, 5/16-18, Hex	10058	133	3	Washer, 5/16", External Tooth	13638
60	2	Arm, Slide Support	915-7412	134	8	Washer, .516" I.D. x 1" O.D. x .0269"	15328
61	10	Bearing, Flange, 3/4" x 1/4"	24012	135	1	Latch Weldment, Front	27013FW
62	2	Slide, Platform, Rotate, Weldment	915-0406W	136	1	Latch Weldment, Rear	27013RW
63	4	Bearing, UHMW, Flat, 1.226"	205-1760	137	4	Spacer, I.B. Gas Spring	29460
64	2	Pin, Pivot, Lower Arm	900-0413	138	4	O-Ring, 5/16" I.D. x 1/16"	26614
65	10	Ring, Snap, 3/4", External	18657	139	2	Spring, Dampener, Retract	26963
66	2	Spacer, 1/2" O.D. x .334" I.D. x 1.515"	25132	140	4	Ring, External Snap, 5/16"	24570
67	2	Bolt, 5/16-18 x 2", Flange, Hex	25130	141	2	Bolt, 1/4-20 x 1/2", Button Head Socket	15733
68	2	Nut, 5/16-18, Serrated Flange	25131	142	2	Roller Assembly	1000-2395A
69	4	Spacer, Handrail - UHMW	911-5301	143	2	Roller Retainer	915-5353
70	2	Bolt, 7/16-20 x 1", Hex	15746	144	4	Washer, Finger Disc Springs	27276
71	2	Grip, Handle, Yellow	19074	145	2	Pivot, Bridgeplate Lever, Upper, Outer	916-5434
72	4	Bumper, Rubber, 31/32" O.D.	10950	146	2	Pivot, Bridgeplate Lever, Upper, Inside	916-5433
73	2	Screw, #8-18 x 1/2", Self-Tap, Phillips	13583	147	3	Bearing, UHMW Flat, Thin, BK	916-5406
74	2	Pin, Pivot, Handrail	900-0429	148	2	Bumper, .75" x .625", 5/16-18 THD	915-0391
75	2	Screw, #4-40 x 5/8", Round Head	14810	149	2	Bolt, 5/16-18 x 3/4" Hex	13890
76	1	Cover, Plastic, Parallel Arm, Fr - w/Tape	915-3704A	150	2	Bolt, 3/8-16 x 1" Hex, Auto/BK	10025
77	1	Cover, Plastic, Parallel Arm, Fr, Inside - w/Tape	915-3701A	151	1	Grommet, ID-.281", FR-.125", GD-.625", T-.375"	27725
78	1	Cover, Plastic, Parallel Arm, Rr, Inside - w/Tape	915-3703A	152	1	Grommet, ID-.312", FR-.250", GD-.813", T-.500"	27726
79	1	Cover, Plastic, Parallel Arm, Rr - w/Tape	915-3702A	153	2	Spacer, UHMW, Vertical Channel	995-0320
80	2	Clip, Cable, 7/16", Plastic	15777	154	2	Bearing, Flange, 1" x 1/2", 16FDU08	28031
81	1	Clamp, Insulated, 5/8" I.D.	84070	155	2	Nut, 5/16-18, Top Lock, Black	28324BK
82	4	Washer, #10 Flat	11541	156	2	Bolt, 5/16-18 x 3/4", Button Hd. Socket Cap, Bk.	24440
83	7	Rivet, Snap, Black, .256/.295" Thick	26362	157	3	Rivet, Pop, 1/8"-13"/.19"	12954
84	1	Rivet, Pop, SD64BS - 3/16"	11513	158	1	Stud, Wing Head	28804
85	2	Bolt, 5/16-18 x 1 1/4", Low Soc. Hd. Cap Scr., Bk.	26327	159	1	Retainer, Push-On	28805
86	1	Handle Clip, Bottom	915-5518				

Millennium Series™ 08 L915 Supplement 30563

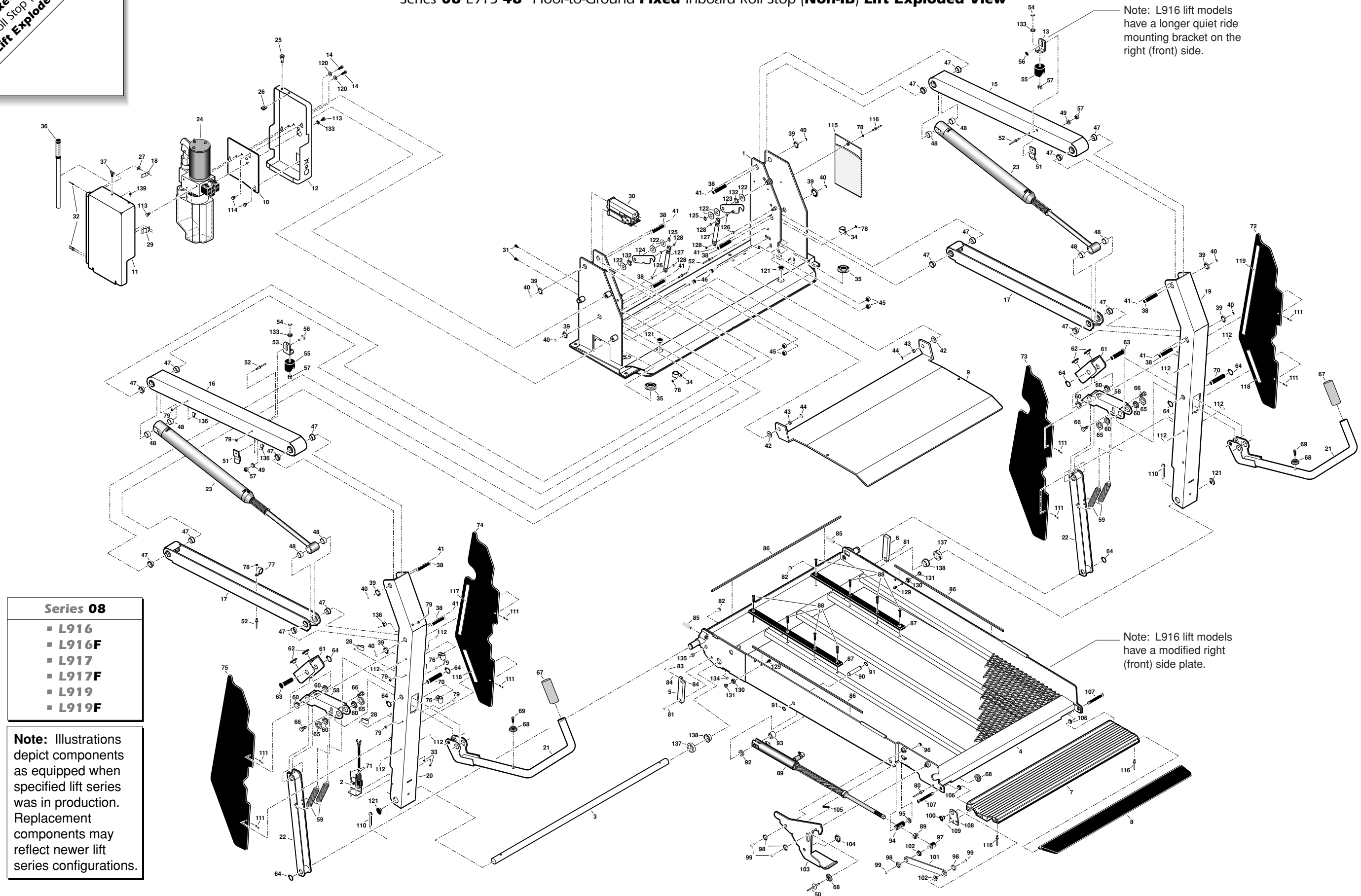
Series 08 L915 42" Floor-to-Ground Fixed Inboard Roll Stop (Non-IB) Repair Parts List

Part Numbers of Items Dedicated per Lift Model							
Item	Qty.	Description	L915	L915F	L918	L918F	
1	1	Base Plate Weldment	915R8142W30	915F8142W30	918R8142W33	918F8142W33	
2	1	Bridge Switch Assembly	25463RA	25463FA	25463RA	25463FA	
3	1	Pin, Platform Pivot	915U032430	915U032430	911-5324	911-5324	
4	1	Platform Weldment	915R63050W	915R63050W	915R63350W	915R63350W	
5	1	Block, Platform Stop - Bridging - Rear	25778	900-0311	25778	900-0311	
6	1	Block, Platform Stop - Bridging - Front	900-0311	25778	900-0311	25778	
7	1	Roll Stop (Extruded Aluminum)	915R4312-30	915R4312-30	915R4312-33	915R4312-33	
8	1	Roll Stop Nose, Rubber	24603-30	24603-30	24603-33	24603-33	
9	1	Bridge Plate	915U0145	915U0145	915U0148	915U0148	
10	1	Plate, Backing/Mounting-Pump Module	975R0501	975F0501	975R0501	975F0501	
11	1	Pump Cover, 2Pc, Top-Front Assy.	915R5513TA	915F5513TA	915R5513TA	915F5513TA	
12	1	Pump Cover, 2Pc, Back-Bottom	915R5513B	915F5513B	915R5513B	915F5513B	
13	1	Bracket, Mounting, Quiet Ride	995-2392	995-2392	915R0392	915F0392	
Part Numbers of Items Identical on All Lift Models							
Item	Qty.	Description	Part No.	Item	Qty.	Description	Part No.
14	1	Microswitch Assembly	975-3121A	76	2	Clip, Cable, 7/16", Plastic	15777
15A	1	Parallel Arm Weldment, Top, Front	915-0422F	77	1	Clamp, Insulated, 5/8" I.D.	84070
15B	1	Parallel Arm Assembly, Top, Front (w/Flanged Bearings)	915-0422FA	78	4	Washer, #10 Flat	11541
16A	1	Parallel Arm Weldment, Top, Rear	915-0422R	79	7	Rivet, Snap, Black, .256/.295" Thick	26362
16B	1	Parallel Arm Assembly, Top, Rear (w/Flanged Bearings)	915-0422RA	80	1	Rivet, Pop, SD64BS - 3/16"	11513
17A	2	Parallel Arm Weldment, Bottom	975-0457W	81	2	Bolt, 5/16-18 x 1 1/4", Low Soc. Hd. Cap Scr., Bk.	26327
17B	2	Parallel Arm Assembly, Bottom (w/Flanged Bearings)	975-0457A	82	2	Nut, 5/16-18, Top Lock, Black	28324BK
18	2	Bolt, 5/16-18 x 3/4" Nylock	29608	83	1	Screw, #8-32 x 1", Mach. Truss Head, Black	19912BK
19	1	Vertical Channel Weldment, Front	955F2442W	84	2	Nut, #8-32, Hex	10777
20	1	Vertical Channel Weldment, Rear	955R2442W	85	2	Screw, 1/2-20 x 1 1/2", Set, Lock	18663
21	2	Handrail Weldment, ADA	915-0409W	86	3	Edge Liner, 1/8" U-Molding, Yellow	24045R025.75
22	2	Platform Pivot Arm Weldment	915-0424W	87	2	Slide, Platform, UHMW	900-0320
23	2	Cylinder	C1514.3-9407	88	8	Screw, #8-18 x 1" Wafer Head, Self Tap	14549
24	1	Pump Assembly (M268 with Backup Pump)	25597A12V-A6	89	1	Cylinder, Roll Stop, Assembly	915-5318A
25	2	Bolt, 5/16-18 x 3/4", Button Head Soc. Cap	24440	90	1	Pin, Platform Cylinder	915-0414
26	1	Stud, Wing Head	28804	91	2	Ring, Snap, 1/2", External, .035" Thick	20946
27	1	Washer, 1/4" I.D. x 11/16" x .030" - Nylon	12690	92	1	Spacer, Flap Cylinder, .184" Thick	915-0416
28	1	Retainer, Push-On	28805	93	1	Spacer, Flap Cylinder, .700" Thick	915-0415
29	1	Handle Clip, Top	915-5517	94	1	Pivot, Roll Stop Cylinder, Front	990-0352
30	1	Receptacle, Clip-On	28803	95	1	Washer, .4" I.D. x .810" O.D. x .12"	24536
31	1	Diode, Green LED, Panel Mount	29545	96	1	Bolt, 3/8-16 x 3/4", Soc. Hd. Cap Screw, Bk.	26259
32	1	Handle Clip, Bottom	915-5518	97	1	Adapter, Cylinder/Roll Stop Lever	915-0344
33	2	Nut, #4-40 with Lock Washer	19537	98	4	Adapter, Cylinder/Roll Stop Lever-Out	990-0341
34	2	Clamp, Insulate, 1-3/8" I.D.	29765	99	4	Screw, #10-32 x 3/8", Flat Head, Hex	24537
35	2	Grommet, Rubber, 1.25" I.D.	25916	100	1	Pivot, Roll Stop Lever	24550
36	1	Handle, Pump (w/Grip)	17206A	101	1	Lever, Roll Stop Latch (Assembly #915-0345A)	915-0345
37	3	Rivet, Pop, 1/8"- .13"/.19"	12954	102	2	Bearing, Flange, 1/2" x 1/4"	24442
38	8	Pin, Pivot Parallel Arm	917-0403	103	1	Latch, Roll Stop	915-0343R
39	8	Washer, 1/2" Flat, Black Zinc	25346	104	1	Spacer, UHMW, Latch	950-7760
40	8	Screw, 5/16-18 x 3/4", SHFS	25527	105	1	Spring, 1/4" x 1" Extension w/Hooks	10774
41	8	Screw, Drive #8 x 3/16" Long	24439BK	106	2	Bearing, Flange, 3/8" x 1/4"	24028
42	2	Washer, 14 Ga. Whale Pin	205-1791	107	2	Pin, Clevis, 3/8" x 3", Black	24932BK
43	2	Bearing, 1/2" O.D. x 3/8" I.D. x .150" Long	955-0102	108	1	Tab, Roll Stop, Flap Cylinder	915-2367
44	2	Bolt, 3/8-16 x 3/4", Flanged, Button Head	25171	109	1	Screw, 10-32 x 5/8", Pan Head Phillips, Thd. Cut	26714
45	4	Nut, 3/8-16 Top Lock, Black	28339BK	110	2	Cotter Pin, 1/4" x 2", Black	15886BK
46	2	Bolt, 3/8-16 x 3/4", Socket Head, Cap, Black	26259	111	8	Fastener, J-Nut, #10-24	25776
47	16	Bearing, Flange, 3/4" x 3/8", 12FDU06	24011	112	8	Screw, #10-24 x 1/2", Button Head, Allen	25842
48	8	Bushing, 3/4" I.D. x 1/2"	900-0456	113	2	Bolt, 5/16-18 x 1/2", Nylock, Hex	10012
49	2	Washer, 5/16", Lock	10068	114	2	Bolt, 3/8-16 x 3/8", Nylock, Hex	17633
50	1	Rivet, Pop, SD68BSLF-3/16"- .38"/.50"	15244	115	1	Holder, Owner's Manual - Clear	25715
51	2	Bracket, Inner Side Panel Guide	915-0703	116	3	Rivet, Pop, SD62BS-3/16"- .06"/.13"	11512
52	5	Rivet, Pop, SD66BS - 3/16"	14993	117	2	Tape, 1" Wide Single Face Foam x 11" (1 Shown)	82015R011
53	1	Bracket, Mounting, Quiet Ride	915-0392	118	4	Tape, 1" Wide Single Face Foam x 8" (2 Shown)	82015R008
54	2	Bolt, 5/16-18 x 3/4", Button Hd. Socket Cap, Bk.	24440	119	2	Tape, 1" Wide Single Face Foam x 14" (1 Shown)	82015R014
55	2	Stow Block, Guided	28593	120	2	Washer, 5/16" Flat	10063
56	2	Bolt, 5/16-18 x 3/4", Carriage, Black	15858BK	121	2	Cap, End, 1" I.D. x 1 1/4" O.D., Plastic	20474
57	4	Nut, 5/16-18, Hex	10058	122	6	Washer, .516" I.D. x 1" O.D. x .0269"	15328
58	2	Arm, Slide Support	915-0411	123	1	Latch Weldment, Front	27013FW
59	4	Spring, 3/4" x 5/12" Extension with Hooks	24281	124	1	Latch Weldment, Rear	27013RW
60	8	Bearing, Flange, 3/4" x 1/4"	24012	125	2	Ring, External Snap, Lock, 1/2"	13273
61	2	Slide, Platform, Rotate	915-0407	126	4	O-Ring, 5/16" I.D. x 1/16"	26614
62	4	Bearing, UHMW, Flat, 1.226"	205-1760	127	2	Spring, Dampener, Retract	26963
63	2	Pin, Pivot, Lower Arm	915-0413	128	4	Ring, External Snap, 5/16"	24570
64	8	Ring, Snap, 3/4", External	18657	129	2	Bolt, 1/4-20 x 1/2", Button Head Socket	15733
65	4	Spacer, Handrail, UHMW	911-5301	130	2	Roller Assembly	1000-2395A
66	4	Bolt, 3/8-16 x 3/4", Hex	12463	131	2	Roller Retainer	915-5353
67	2	Grip, Handle, Yellow	19074	132	2	Washer, Finger Disc Springs	27276
68	4	Bumper, Rubber, 31/32" O.D.	10950	133	3	Washer, 5/16" External Tooth	16368
69	2	Screw, #8-18 x 1/2", Self-Tap, Phillips	13583	134	1	Grommet, ID-.281", FR-.125", GD-.625", T-.375"	27725
70	2	Pin, Pivot, Handrail	900-0429	135	1	Grommet, ID-.312", FR-.250", GD-.813", T-.500"	27726
71	2	Screw, #4-40 x 5/8", Round Head	14810	136	3	Clamp, 1/4" ID, Nylon Loop, BLK	84396
72	1	Cover, Plastic, Parallel Arm, Fr - w/Tape	915-3704A	137	2	Spacer, UHMW, Vertical Channel	995-0320
73	1	Cover, Plastic, Parallel Arm, Fr, Inside - w/Tape	915-3701A	138	2	Bearing, Flange, 1" x 1/2", 16FDU08	28031
74	1	Cover, Plastic, Parallel Arm, Rr, Inside - w/Tape	915-3703A	139	2	Clip, Cable, 1/2", Plastic	10092
75	1	Cover, Plastic, Parallel Arm, Rr - w/Tape	915-3702A				

Series 08 L915 42" Floor-to-Ground Fixed Inboard Roll Stop (Non-IB) Lift Exploded View



Series **08** L915 **48"** Floor-to-Ground **Fixed** Inboard Roll Stop (**Non-IB**) **Lift Exploded View**



Series 08

- **L916**
- **L916F**
- **L917**
- **L917F**
- **L919**
- **L919F**

Note: Illustrations depict components as equipped when specified lift series was in production. Replacement components may reflect newer lift series configurations.

Millennium Series™ 08 L915 Supplement 30563

Series 08 L915 48" Floor-to-Ground Fixed Inboard Roll Stop (Non-IB) Repair Parts List

Part Numbers of Items Dedicated per Lift Model								
Item	Qty.	Description	L916	L916F	L917	L917F	L919	L919F
1	1	Base Plate Weldment	916R8148W30	916F8148W30	917R8148W33	917F8148W33	919R8148W34	919F8148W34
2	1	Bridge Switch Assembly	25463RA	25463FA	25463RA	25463FA	25463RA	25463FA
3	1	Pin, Platform Pivot	915U032430	915U032430	911-5324	911-5324	911-5324-31	911-5324-31
4	1	Platform Weldment	915R63050W	915R63050W	915R63350W	915R63350W	919R63450W	919R63450W
5	1	Block, Platform Stop - Bridging - Rear	25778	900-0311	25778	900-0311	25778	900-0311
6	1	Block, Platform Stop - Bridging - Front	900-0311	25778	900-0311	25778	900-0311	25778
7	1	Roll Stop (Extruded Aluminum)	915R4312-30	915R4312-30	915R4312-33	915R4312-33	915R4312-34	915R4312-34
8	1	Roll Stop Nose, Rubber	24603-30	24603-30	24603-33	24603-33	24603-34	24603-34
9	1	Bridge Plate	915U0146	915U0146	915U0147	915U0147	915U0147-34	915U0147-34
10	1	Plate, Backing/Mounting-Pump Module	975R0501	975F0501	975R0501	975F0501	975R0501	975F0501
11	1	Pump Cover, 2Pc, Top-Front Assy.	915R5513TA	915F5513TA	915R5513TA	915F5513TA	915R5513TA	915F5513TA
12	1	Pump Cover, 2Pc, Back-Bottom	915R5513B	915F5513B	915R5513B	915F5513B	915R5513B	915F5513B
13	1	Bracket, Mounting, Quiet Ride	995-2392	995-2392	915-0392	915-0392	915-0392	915-0392

Part Numbers of Items Identical on All Lift Models								
Item	Qty.	Description	Part No.	Item	Qty.	Description	Part No.	
14	2	Bolt, 5/16-18 x 3/4", Nylock	29608	76	2	Clip, Cable, 7/16", Plastic	15777	
15A	1	Parallel Arm Weldment, Top, Front	915-0437F	77	1	Clamp, Insulated, 5/8" I.D.	84070	
15B	1	Parallel Arm Assembly, Top, Front (w/Flanged Bearings)	915-0437FA	78	4	Washer, #10 Flat	11541	
16A	1	Parallel Arm Weldment, Top, Rear	915-0437R	79	7	Rivet, Snap, Black, .256/.295" Thick	26362	
16B	1	Parallel Arm Assembly, Top, Rear (w/Flanged Bearings)	915-0437RA	80	1	Rivet, Pop, SD64BS - 3/16"	11513	
17A	2	Parallel Arm Weldment, Bottom	975-0458W	81	2	Bolt, 5/16-18 x 1 1/4", Low Soc. Hd. Cap Scr., Bk.	26327	
17B	2	Parallel Arm Assembly, Bottom, (w/Flanged Bearings)	975-0458A	82	2	Nut, 5/16-18, Top Lock, Black	28324BK	
18	1	Handle Clip, Top	915-5517	83	1	Screw, #8-32 x 1", Mach. Truss Head, Black	19912BK	
19	1	Vertical Channel Weldment, Front	955F2448W	84	2	Nut, #8-32, Hex	10777	
20	1	Vertical Channel Weldment, Rear	955R2448W	85	2	Screw, 1/2-20 x 1 1/2", Set, Lock	18663	
21	2	Handrail Weldment, ADA	916-0409W	86	3	Edge Liner, 1/8" U-Molding, Yellow	24045R025.75	
22	2	Platform Pivot Arm Weldment	915-0441W	87	2	Slide, Platform, UHMW	900-0320	
23	2	Cylinder	C1514.3-9408	88	8	Screw, #8-18 x 1" Wafer Head, Self Tap	14549	
24	1	Pump Assembly (M268 with Backup Pump)	25597A12V-A6	89	1	Cylinder, Roll Stop, Assembly	915-5318A	
25	1	Diode, Green LED, Panel Mount	29545	90	1	Pin, Platform Cylinder	915-0414	
26	1	Receptacle, Clip-On	28803	91	2	Ring, Snap, 1/2", External, .035" Thick	20946	
27	1	Washer, 1/4" I.D. x 11/16" x .030" - Nylon	12690	92	1	Spacer, Flap Cylinder, .184" Thick	915-0416	
28	2	Clip, Cable, 1/2", Plastic	10092	93	1	Spacer, Flap Cylinder, .700" Thick	915-0415	
29	1	Handle Clip, Bottom	915-75518	94	1	Pivot, Roll Stop Cylinder, Front	990-0352	
30	1	Microswitch Assembly	975-3121A	95	1	Washer, .4" I.D. x .810" O.D. x .12"	24536	
31	2	Bolt, 5/16-18 x 3/4", Button Head, Soc. Cap	24440	96	1	Bolt, 3/8-16 x 3/4", Soc. Hd. Cap Screw, Bk.	26259	
32	3	Rivet, Pop, 1/8" - .13"/.19"	12954	97	1	Adapter, Cylinder/Roll Stop Lever	915-0344	
33	2	Nut, #4-40 with Lock Washer	19537	98	4	Adapter, Cylinder/Roll Stop Lever-Out	990-0341	
34	2	Clamp, Insulate, 1 3/8" I.D.	29765	99	4	Screw, #10-32 x 3/8", Flat Head, Hex	24537	
35	2	Grommet, Rubber, 1.25" I.D.	25916	100	1	Pivot, Roll Stop Lever	24550	
36	1	Handle, Pump (w/Grip)	17206A	101	1	Lever, Roll Stop Latch (Assembly #915-0345A)	915-0345	
37	1	Stud, Wing Head	28804	102	2	Bearing, Flange, 1/2" x 1/4"	24442	
38	8	Pin, Pivot Parallel Arm	917-0403	103	1	Latch, Roll Stop	915-0343R	
39	8	Washer, 1/2" Flat, Black Zinc	25346	104	1	Spacer, UHMW, Latch	950-7760	
40	8	Screw, 5/16-18 x 3/4", SHFS	25527	105	1	Spring, 1/4" x 1" Extension w/Hooks	10774	
41	8	Screw, Drive #8 x 3/16" Long	24439BK	106	2	Bearing, Flange, 3/8" x 1/4"	24028	
42	2	Washer, 14 Ga. Whale Pin	205-1791	107	2	Pin, Clevis, 3/8" x 3", Black	24932BK	
43	2	Bearing, 1/2" O.D. x 3/8" I.D. x .150" Long	955-0102	108	1	Tab, Roll Stop, Flap Cylinder	915-2367	
44	2	Bolt, 3/8-16 x 3/4", Flanged, Button Head	25171	109	1	Screw, 10-32 x 5/8", Pan Head Phillips, Thd. Cut	26714	
45	4	Nut, 3/8-16 Top Lock, Black	28339BK	110	2	Cotter Pin, 1/4" x 2", Black	15886BK	
46	2	Bolt, 3/8-16 x 3/4", Socket Head, Cap, Black	26259	111	8	Fastener, J-Nut, #10-24	25776	
47	16	Bearing, Flange, 3/4" x 3/8", 12FDU06	24011	112	8	Screw, #10-24 x 1/2", Button Head, Allen	25842	
48	8	Bushing, 3/4" I.D. x 1/2"	900-0456	113	2	Bolt, 5/16-18 x 1/2", Nylock, Hex	10012	
49	2	Washer, 5/16", Lock	10068	114	2	Bolt, 3/8-16 x 3/8", Nylock, Hex	29729	
50	1	Rivet, Pop, SD68BSLF-3/16"-38"/.50"	15244	115	1	Holder, Owner's Manual - Clear	25715	
51	2	Bracket, Inner Side Panel Guide	915-0703	116	3	Rivet, Pop, SD62BS-3/16"-06"/.13"	11512	
52	5	Rivet, Pop, SD66BS - 3/16"	14993	117	2	Tape, 1" Wide Single Face Foam x 11" (1 Shown)	82015R011	
53	2	Bracket, Mounting, Quiet Ride	915-0392	118	4	Tape, 1" Wide Single Face Foam x 8" (2 Shown)	82015R008	
54	2	Bolt, 5/16-18 x 3/4", Button Hd. Socket Cap, Bk.	24440	119	2	Tape, 1" Wide Single Face Foam x 14" (1 Shown)	82015R014	
55	2	Stow Block, Guided	28593	120	2	Washer, 5/16" Flat	10063	
56	2	Bolt, 5/16-18 x 3/4", Carriage, Black	15858BK	121	2	Cap, End, 1" I.D. x 1 1/4" O.D., Plastic	20474	
57	4	Nut, 5/16-18, Hex	10058	122	6	Washer, .516" I.D. x 1" O.D. x .0269"	15328	
58	2	Arm, Slide Support	915-0411	123	1	Latch Weldment, Front	27013FW	
59	4	Spring, 3/4" x 5/12" Extension with Hooks	24281	124	1	Latch Weldment, Rear	27013RW	
60	8	Bearing, Flange, 3/4" x 1/4"	24012	125	2	Ring, External Snap, Lock, 1/2"	13273	
61	2	Slide, Platform, Rotate	915-0407	126	4	O-Ring, 5/16" I.D. x 1/16"	26614	
62	4	Bearing, UHMW, Flat, 1.226"	205-1760	127	2	Spring, Dampener, Retract	26963	
63	2	Pin, Pivot, Lower Arm	915-0413	128	4	Ring, External Snap, 5/16"	24570	
64	8	Ring, Snap, 3/4", External	18657	129	2	Bolt, 1/4-20 x 1/2", Button Head Socket	15733	
65	4	Spacer, Handrail, UHMW	911-5301	130	2	Roller Assembly	1000-2395A	
66	4	Bolt, 3/8-16 x 3/4", Hex	12463	131	2	Roller Retainer	915-5353	
67	2	Grip, Handle, Yellow	19074	132	2	Washer, Finger Disc Springs	27276	
68	4	Bumper, Rubber, 31/32" O.D.	10950	133	3	Washer, 5/16" External Tooth	16368	
69	2	Screw, #8-18 x 1/2", Self-Tap, Phillips	13583	134	1	Grommet, ID-.281", FR-.125", GD-.625", T-.375"	27725	
70	2	Pin, Pivot, Handrail	900-0429	135	1	Grommet, ID-.312", FR-.250", GD-.813", T-.500"	27726	
71	2	Screw, #4-40 x 5/8", Round Head	14810	136	3	Clamp, 1/4" ID, Nylon Loop, BLK	84396	
72	1	Cover, Plastic, Parallel Arm, Fr - w/Tape	915-3704A	137	2	Spacer, UHMW, Vertical Channel	995-0320	
73	1	Cover, Plastic, Parallel Arm, Fr, Inside - w/Tape	915-3701A	138	2	Bearing, Flange, 1" x 1/2", 16FDU08	28031	
74	1	Cover, Plastic, Parallel Arm, Rr, Inside - w/Tape	915-3703A	139	1	Retainer, Push-On	28805	
75	1	Cover, Plastic, Parallel Arm, Rr - w/Tape	915-3702A	140	1	Receptacle, Clip-On	28803	

Series 08 L915 Floor Level Guideline Adjustments

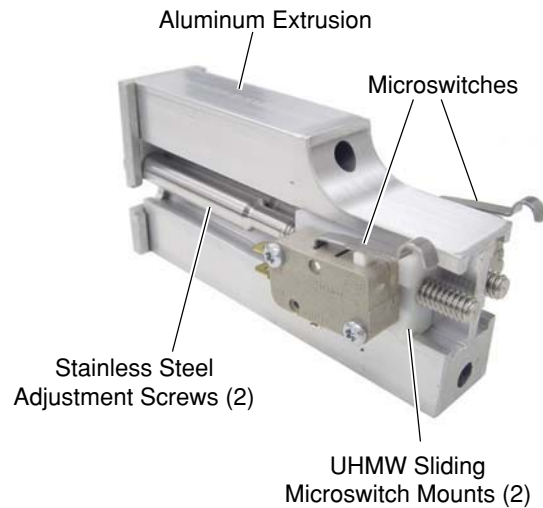
Unfold/Down and Up/Fold Microswitches:

Series 08 L915 Series lifts feature a new Unfold/Down and Up/Fold microswitch assembly. The microswitch assembly is located in the pump side tower (shown below).

When adjusting microswitches, stop block positioning and bridge plate positioning must be viewed. A combination of adjustments may be required to achieve a proper balance. In the event that one of these microswitches requires adjustment, refer to pages 30-32 of this manual for Floor Level Guideline Adjustments. Adjust microswitches as outlined below.

Adjustment: Adjustment procedures remain the same (adjustment Allen screws in place of hex bolts). Use a 3/16" Allen wrench to turn the two stainless steel Allen adjustment screws to reposition the limit switches. Adjust these microswitches as outlined below and on Microswitch Adjustment Instructions decal 24490 (posted on tower).

Series 08 Millennium
Unfold/Down and Up/Fold
Microswitch Assembly 975-3121A



⚠ WARNING

Improper microswitch adjustment may result in serious bodily injury and/or property damage.

Up/Fold Microswitch:

Turn adjustment bolt counter-clockwise to stop platform raise function sooner.

Turn adjustment bolt clockwise to allow platform to raise further.



Microswitch Adjustment Instructions
Decal 24490

Unfold/Down Microswitch:

Turn adjustment bolt clockwise to stop platform unfold function sooner.

Turn adjustment bolt counter-clockwise to allow platform to unfold further.

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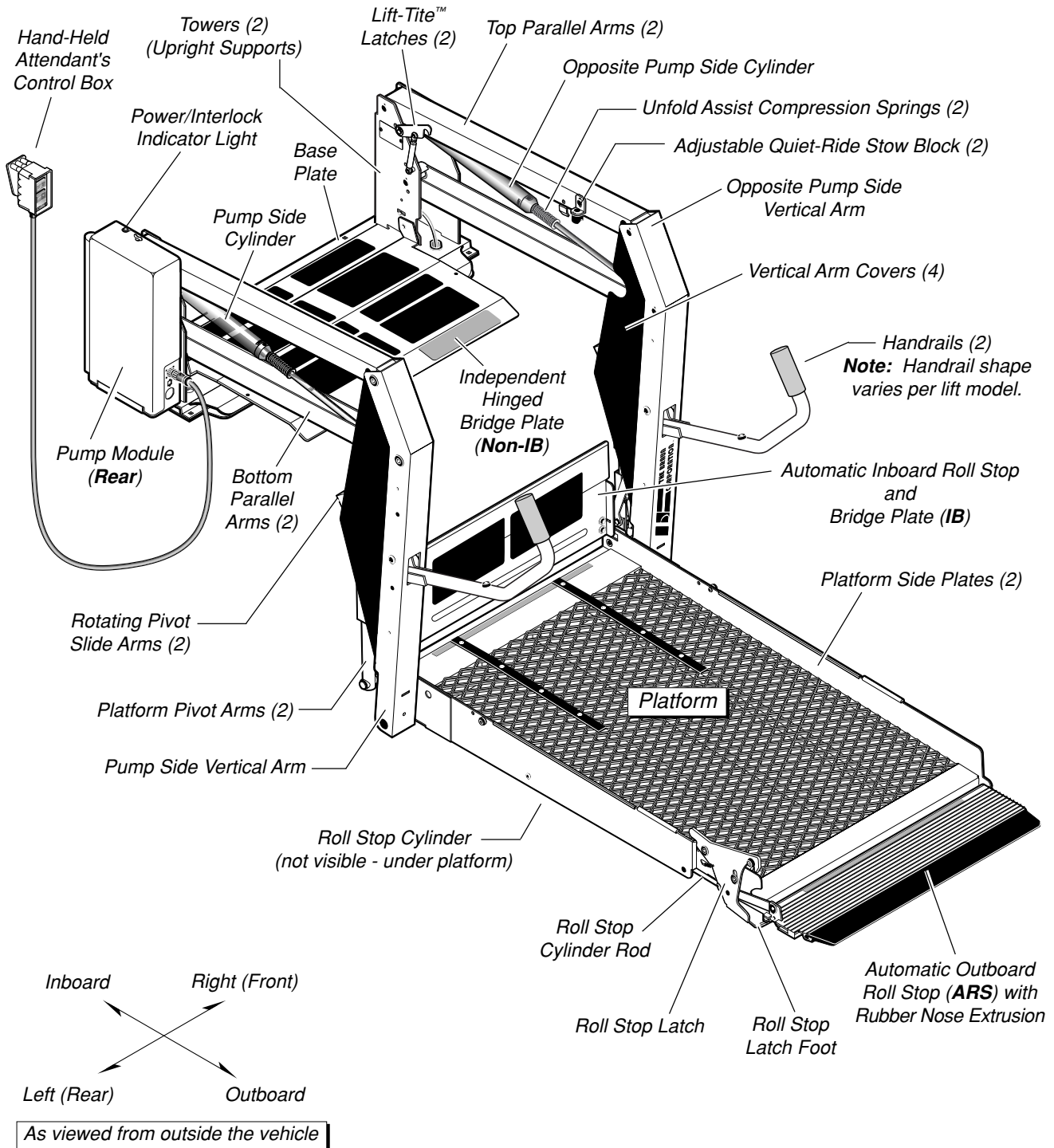
Lift Terminology

Lift model numbers with suffix "IB" are equipped with an automatic mechanical inboard roll stop that also serves as the bridge plate. Lift model numbers without suffix "IB" feature a combination stationary inboard roll stop with an independent

hinged bridge plate. Both types of bridge plates are shown in the illustration below for identification purposes (details provided on page 3).

A left side (rear) pump-equipped lift model is depicted. Right side

(front) pump lift models are a mirrored image of left side pump models (pump module located on opposite end of base plate). Details regarding lift model variations, terminology, direction and lift components are provided on page 3.



Lift Terminology

Introduction

Braun L915 Millennium Series lifts are ADA compliant and commercial oriented (intended for operation by an attendant). The L915 Millennium Lift Series includes variations of lift models L915, L916, L917, L918 and L919. Model numbers indicate lift dimensions and options.

Lift model numbers with suffix "IB" are equipped with an automatic mechanical inboard roll stop that also serves as the bridge plate. Lift model numbers without suffix "IB" feature a combination stationary inboard roll stop with an independent hinged bridge plate. Inboard roll stop and bridge plate details are provided in Lift Components (at right).

L915 Series lift models can be equipped with left or right side pump modules as needed. Lift model numbers with suffix "F" are right side (front) pump equipped and model numbers without suffix "F" are equipped with a left side (rear) pump. A left side pump-equipped lift model is depicted in the Lift Terminology Illustration. Right side pump lift models are a mirrored image of rear pump models (pump module located on opposite end of base plate).

Refer to the Lift Terminology Illustration for identification of lift components.

Lift installation and lift operation procedures are identical for all L915 Series lift models. Read and become familiar with the lift operating instructions appearing on lift-posted operating instructions decals and the lift installation instructions contained in this manual before beginning installation procedures.

Terminology: Become familiar with the terminology that will be used throughout this manual. Become familiar with the identification of lift components and their functions. Contact your lift sales representative or call The Braun Corporation at 1-800-THE LIFT if any of this information is not fully understood.

Direction: The terms "left (rear)," "right (front)," "inboard," and "outboard" will be used throughout this manual to indicate direction (as viewed from outside the vehicle looking directly at the lift). Refer to the Lift Terminology Illustration for clarification of direction terms.

Lift Components

Pump Module: The lift-mounted pump module consists of the hydraulic pump, the manual hand pump and electrical components that power the lift electric/hydraulic systems. **Note:** A green power/interlock indicator light is built into the pump module (details on page 41).

Hand-held Switch Control Box: The "quick-disconnect" hand-held control switchbox is connected to the pump module. "Quick-disconnect" hand-held controls are available with three types of cable (standard, armored and coiled). The control box is equipped with two color-coded rocker switches, (UNFOLD/FOLD and DOWN/UP). The switches activate the automatic lift functions.

Lift Frame: The lift frame consists of the base plate, two towers, the parallel arms, the vertical arms, platform pivot arms and the handrails. The two main hydraulic cylinders are housed in the parallel arms. The electrical/hydraulic powered lift frame components mechanically unfold,

lower, raise and fold the lift platform assembly.

Platform Assembly: The lift platform assembly consists of the steel tubing frame with grating surface upon which the wheelchair is positioned, the outboard roll stop, roll stop latch, the inboard roll stop, and the hydraulic cylinder assembly that powers the outboard roll stop.

Lift-Tite™ Latch: The spring loaded latches prevent the platform from unfolding from the stowed position in event of platform drift.

Outboard Roll Stop: The cylinder-powered automatic outboard roll stop provides a ramp for wheelchair loading and unloading at ground level.

Roll Stop Latch: The spring-loaded latch locks the outboard roll stop in the vertical position when the platform raises above ground level.

Automatic Inboard Roll Stop and Bridge Plate (IB): L915 "IB" lift models are equipped with an automatic mechanical inboard roll stop that also serves as the bridge plate (shown in the Lift Terminology Illustration on page 2). The mechanical roll stop/bridge plate automatically rotates from the horizontal (bridging) position to the vertical (roll stop) position as the lift lowers and raises.

Fixed Inboard Roll Stop: A stationary inboard roll stop is built into "non-IB" L915 lift platforms.

Independent Hinged Bridge Plate: "Non-IB" L915 lift models are equipped with an independent hinged bridge plate (shown in the Lift Terminology Illustration on page 2). The bridge plate bridges the gap between the lift platform and the vehicle floor.

Installation/Service Safety Precautions

Safety Symbols

SAFETY FIRST! Know That....

A The information contained in this manual and supplements (if included), is provided for your use and safety. Familiarity with proper installation, operation, maintenance and service procedures is necessary to ensure safe, troublefree lift operation. Safety precautions are provided to identify potentially hazardous situations and provide instruction on how to avoid them.

B

⚠ WARNING

This symbol indicates important safety information regarding a potentially hazardous situation that could result in serious bodily injury and/or property damage.

C

⚠ CAUTION

This symbol indicates important information regarding how to avoid a hazardous situation that could result in minor personal injury or property damage.

D **Note:** Additional information provided to help clarify or detail a specific subject.

These symbols will appear throughout this manual as well as on the labels posted on your lift. **Recognize the seriousness of this information.**

Installation/Service Safety Precautions

⚠ WARNING

If installation, maintenance or repair procedures cannot be completed exactly as provided in this manual or if the instructions are not fully understood, contact The Braun Corporation immediately. Failure to do so may result in serious bodily injury and/or property damage.

⚠ WARNING Read this manual, supplement(s) and lift-posted operating instructions decals before performing installation, operation or service procedures.

⚠ CAUTION Minimum clear door opening dimensions specified in Lift Dimensions per lift model must be provided.

⚠ WARNING Remove any obstructions within the lift mounting/operating area prior to beginning installation procedures.

⚠ WARNING Install lift and power platform to fully folded position before removing shipping straps.

⚠ WARNING Do not fold or unfold the platform prior to positive securement of base plate mounting hardware.

⚠ WARNING Check for obstructions such as gas lines, wires, exhaust, etc. before drilling or cutting during installation procedures.

⚠ WARNING Route all cables clear of exhaust system, other hot areas, moving parts, wet areas, etc.

⚠ WARNING Risk of electrical shock or fire! Use extra care when making electrical connections. Connect and secure as outlined in Installation Instructions and Wiring Diagrams.

Installation/Service Safety Precautions

Installation/Service Safety Precautions

- ⚠WARNING** Adjust platform angle and floor level positioning of bridge plates and inboard roll stops as detailed in this manual before operating lift with passenger.
- ⚠WARNING** Meet all lift positioning and clearance specifications as detailed in the Positioning and Clearance Checklist before operating lift with passenger.
- ⚠WARNING** Maintenance and repairs must be performed only by authorized service personnel.
- ⚠WARNING** Perform maintenance and lubrication procedures exactly as outlined in the Maintenance and Lubrication Schedule contained in this manual.
- ⚠WARNING** Disconnect the power cable at the battery prior to servicing.
- ⚠WARNING** Keep hands, arms and all other body parts clear of moving parts.
- ⚠WARNING** Never modify (alter) a Braun Corporation lift.
- ⚠WARNING** Replacement parts must be Braun authorized replacements.
- ⚠WARNING** Never install screws or fasteners (other than factory equipped).
- ⚠WARNING** Whenever replacing a hydraulic cylinder or seals, lower platform fully.
- ⚠WARNING** The lift owner's (operator's) manual must be in the lift-mounted manual storage pouch when the consumer receives the lift.
- ⚠WARNING** Failure to follow these safety precautions may result in serious bodily injury and/or property damage.

Pre-Installation Notes

⚠ WARNING

Read this manual, supplement(s) and lift-posted operating instructions decals before performing installation, operation or service procedures. Failure to do so may result in serious bodily injury and/or property damage.

☐ **Installation Requirements:**

Braun L915 Millennium Series lifts must be installed and serviced by a Braun authorized service representative who has attended and been certified by The Braun Corporation Sales and Service School for Braun Mobility Products.

Read and become familiar with the lift operating instructions appearing on lift-posted operating instructions decals and the lift installation instructions contained in this manual before beginning installation, operation or service procedures.

☐ **Minimum Clear Door Opening Requirements:**

Minimum Clear Door Opening

⚠ CAUTION

Minimum clear door opening dimensions specified in Lift Dimensions per lift model must be provided. Failure to do so may result in property damage.

Dimensions are defined as finished door opening, including any intrusive door jambs, headers, sills or hinges. Any intrusive obstructions within the Clear Door Opening **must** be removed.

Open the door(s) **fully** and check the clear door opening dimensions. **Minimum clear door opening dimensions specified in Lift Dimensions per lift model must be provided.** See the Lift Dimensions section for a complete listing of minimum clear door opening dimensions applicable to your lift model.

Braun Bus Door Kits: Braun Retrofit Bus Door Kits are available to provide the required clear opening dimensions. Contact your Braun sales representative or consult the factory.

Van Applications: The required minimum clear door opening height varies depending on the particular lift model. L915 lift models **will not fit** in standard height (OEM) van door openings (**except in 4" lowered floor applications**). A Raised Door Kit **must be used**.

Braun Raised Top Kits and Raised Door Kits are available to provide the minimum required clear door opening dimensions. Contact your Braun dealer or consult the factory.

Stepwell Installations: When installing an L915 model lift in the side cargo door (with stepwell), it is **not** permissible for the base plate to overhang the stepwell. Additional base plate support **must** be constructed in the stepwell for lift support if the base plate overhangs the open stepwell. See page 11 for details.

☐ **Rear Door and Extensive Floor-to-Ground Installations:**

Rear door and extensive floor-to-ground installations **may** require base plate mounting wedges (shims). The top of the lift may need to be tilted inboard slightly to increase platform and vertical arm kickout and/or provide minimum clearances (to provide adequate clearance between lift and vehicle). See page 12 for details.

Ford Rear Door Installations:

Four underfloor reinforcement brackets are supplied. All four underfloor reinforcement brackets must be used in Ford rear door installations. See page 15 for details (see Figure L).

☐ **Obstructions:**

Any obstructions within the door opening (such as additional seats, molding, lights, brackets, etc.) as well as any obstructions within the lift mounting/operating area **must be removed**. Plastic, rubber or metal molding that creates an uneven mounting surface should be removed. The molding can be modified to fit around the base plate following lift installation procedures.

⚠ WARNING

Remove any obstructions within the lift mounting/operating area prior to beginning installation procedures. Failure to do so may result in serious bodily injury and/or property damage.

Pre-Installation Notes

There **must be a minimum 1/8" clearance between the deployed bridge plate assembly and any obstruction** on the vehicle floor (such as a rubber sill or threshold). See Figure S on page 25.

Passenger's Seat (Vans):

Position (shift) the passenger seat **fully forward prior** to installation procedures. In vehicles equipped with custom seats, it **may** be necessary to remove the passenger seat prior to installation and reinstall and/or relocate upon completion. If the seat is removed, keep all mounting hardware for possible reinstallation.

Running Boards: If the vehicle is equipped with running boards, it **may** be necessary to remove or modify the running boards to provide adequate lift clearance.

☐ Platform Drift:

Read this information **before removing the clear plastic shipping wrap and/or placing the lift in the vehicle.**

⚠ WARNING

Install lift and power platform to fully folded position before removing shipping straps. Failure to do so may result in serious bodily injury and/or property damage.

Due to the "all-hydraulic" operation of the dual-cylinder L915 Series, hydraulic fluid expansion, contraction or seepage may occur. Any of these conditions can result in platform drift (failure to hold the platform in the folded or raised position). Platform drift may occur during lift shipment and/or between extended periods of non-lift use.

Plastic straps secure the lift in the stowed position during shipment. **Before removing the shipping straps**, install the lift and power the platform to the fully folded position (press FOLD switch).

☐ Lift Ground

Two ground cables are provided. One ground cable is connected to the pump. The second ground cable is external (battery mounted). Both cables must be mounted to a common vehicle framing member to provide **optimum ground.**

Pump Mounted Ground Cable:

A ground cable is connected to the pump. The cable must be connected to a main front-to-rear vehicle framing member. Route, position and secure the cable as outlined on pages 18 and 19.

Vehicle Battery Ground Cable:

The external battery ground cable supplied with the lift **must be** connected to the same vehicle framing member that the pump ground cable is attached to.

Note: When mounting ground cables, remove undercoating, dirt, rust, etc. from the framing member around the mounting holes (minimum 5/8" diameter area). Apply a protective coating of grease to mounting holes to prevent corrosion. Apply grease to ground cable terminals and mounting screws also. **Failure to do so will void warranty of certain electrical components.**

☐ Lift Installation Checklist

A generic Lift Installation

Checklist is provided as a final installation checklist to be given to your customer. This checklist is the last page in this manual. Complete, remove (tear out) and forward the Lift Installation Checklist (or a copy) to your customer to confirm that this lift has been properly installed.

☐ Preventive Maintenance Checklist

A generic **Daily Preventive Maintenance Checklist** is provided in this manual (next to last page) for your transit agency's use. The form can be tailored to your particular application.

Lift Installation Instructions

Installation Parts

Please check the Installation Parts List and Tools List to see that you have everything needed to begin. Report any missing items.

Item	Qty.	Description	Part No.
	1	Installation Parts Package (complete) Includes all following items	25853A-A4
1	4	Bracket, Underfloor, Reinforcement	25915-04
	1	Small Parts Package (Bag) only (includes items 2-20 only)	25926A
2	2	Bolt, 3/8"-16 x 8" Hex Tap (Full Thread)	10778
3	8	Bolt, 3/8"-16 x 4" Carriage	23977
4	2	Bolt, 3/8"-16 x 1" Hex	10025
5	8	Washer, 2.469" O.D. x .5" I.D., Flat	13342
6	14	Washer, 3/8" Flat	10064
7	4	Washer, 3/8" Lock	10069
8	8	Washer, 3/8" External Tooth Star	25844
9	2	Washer, 5/16" External Tooth Star	16368
10	10	Nut, 3/8"-16 Hex	10059
11	18	Screw, #8-18 x 1/2" Hex, Self-Tap	10383
12	6	Screw, #8-18 x 1" Hex, Self-Tap	10084
13	2	Screw, 5/16-18 x 3/4", Thread Cutting	21735
14	10	Clip, Cable, 7/16" Diameter Plastic	15777
15	5	Cable Tie, 11" Solid	10091
16	1	Grommet, Plastic	205-2001
17	1	Terminal, Battery Cable, 1/4" eye	13865
18	1	Boot, Rubber, Battery Cable	82046
19	2	Spacer, 13/32" I.D. x 1/2"	13050
20	2	Plastic End Cap, 1" I.D. x 1-1/4" O.D.	20474
21	1	Circuit Sentry Kit	28910KS
22	1	Lead Wire - 30"	13362A
23	1	Cable, Chassis Ground	22166A
24	1	Control Box Holder Assembly Includes:	17019A
25	1	Plate, Back	16988
26	1	Bracket, Switchbox Clip	16954
27	2	Decal, Courtesy Requested	12375
28	1	Decal, Warnings/Operating Instructions	27204
29	1	Decal, Instructions, ADA (Standee/Interlock)	19342
30	1	Video, Commercial Lift Operation	28332
31	1	Manual, Installation/Service	30469
32	2	Grip, Handrail, Yellow	19074

Power Cable and Base Plate Wedges: These items fastened to the lift platform during shipment.

Tools Required

- | | | |
|------------------|-------------------------------|--------------------------------|
| • Pencil | • Wire stripper/Utility knife | • 9/16" Wrenches and/or socket |
| • Tape measure | • 3/8" Capacity drill | • 1-1/8" Diameter hole saw |
| • Framing square | • 1/8" Diameter drill bit | • 1/4" Hex nut driver bit or |
| • Hammer | • 3/8" Diameter drill bit | • 1/4" socket/wrench |
| • Center punch | • 9/32" Diameter drill bit | • Ratchet-style wrench |

Lift Installation Instructions

Ford Rear Door Installation:
Four underfloor reinforcement brackets **must be used**. Details on page 15.

Figure A

Position star washers and underfloor mounting hardware as specified (per chassis and floor configuration).

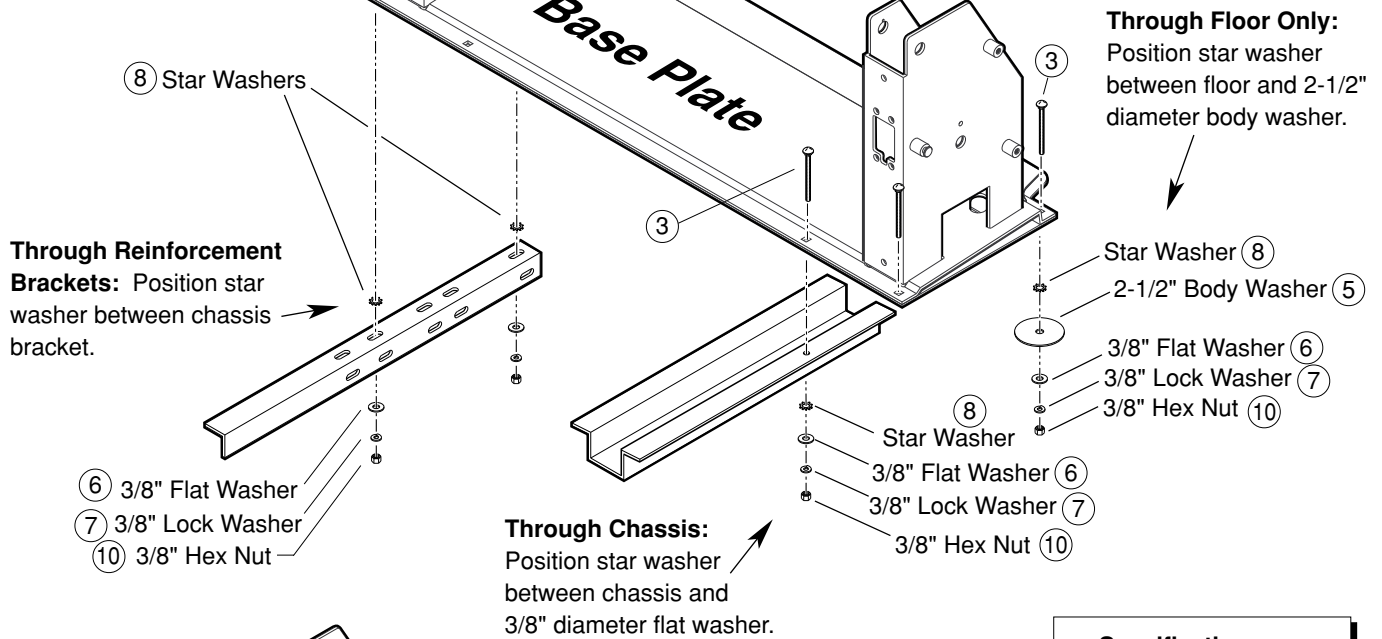
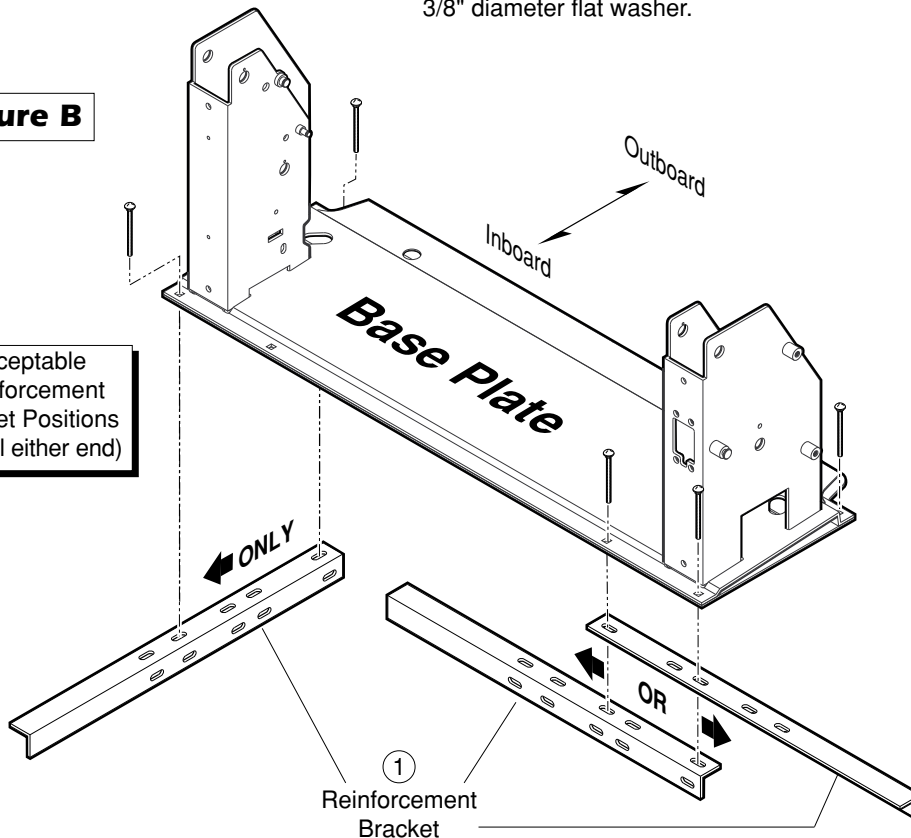


Figure B

Acceptable Reinforcement Bracket Positions (typical either end)



Specifications:

- Eight 3/8"-16 x 4" carriage bolts (or 8" bolts) must secure base plate through floor.
- One reinforcement bracket must secure base plate below floor at both ends (unless inboard mounting bolts penetrate chassis).
- Two mounting bolts must secure each reinforcement bracket.
- One 3/8" star washer, one 3/8" flat washer, one 3/8" lock washer and one 3/8" nut must secure each base plate mounting bolt below floor as specified in Figure A.
- Mounting Bolt Torque Specifications: 28 to 31 foot pounds.

Lift Installation Instructions

Note: Read all Pre-Installation Notes **prior** to installation.

⚠ WARNING

Install lift and power platform to fully folded position before removing shipping straps. Failure to do so may result in serious bodily injury and/or property damage.

⚠ WARNING

When positioning the lift:

- lift must remain folded (vertical)
- minimum three people required if hoist is unavailable

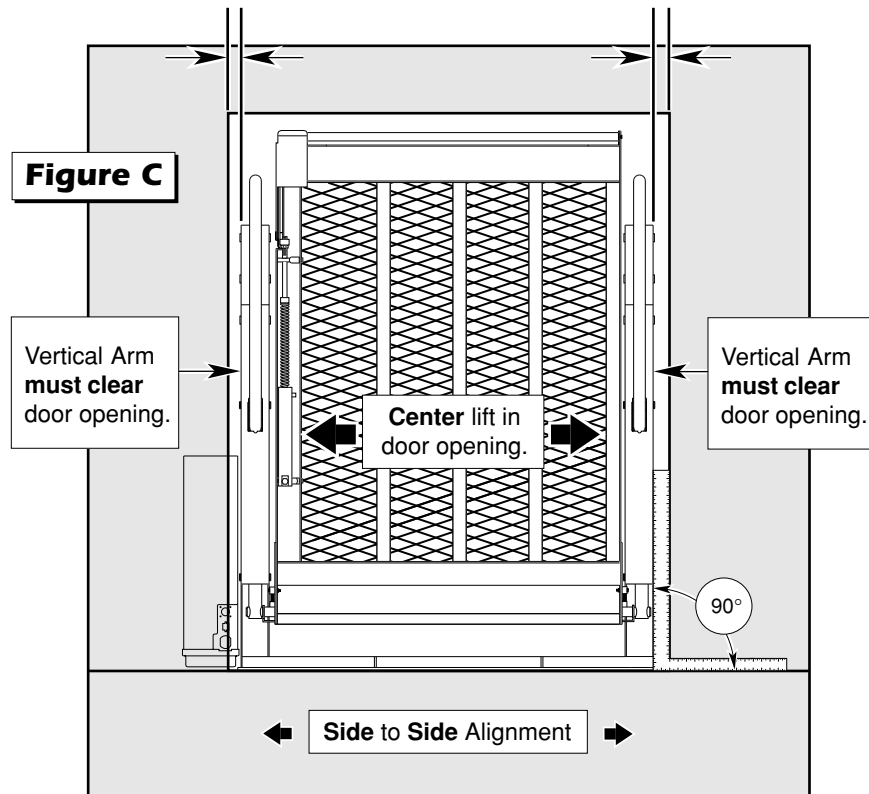
Failure to follow these rules may result in serious bodily injury and/or property damage.

⚠ WARNING

Do not fold or unfold the platform prior to positive securement of base plate mounting hardware. Failure to follow this rule may result in serious bodily injury and/or property damage.

1 Lift Positioning

The lift towers (upright supports) and the vertical arms **must** be parallel (aligned) with the vertical sides of the door jamb and should be perpendicular (90°) to the vehicle floor.

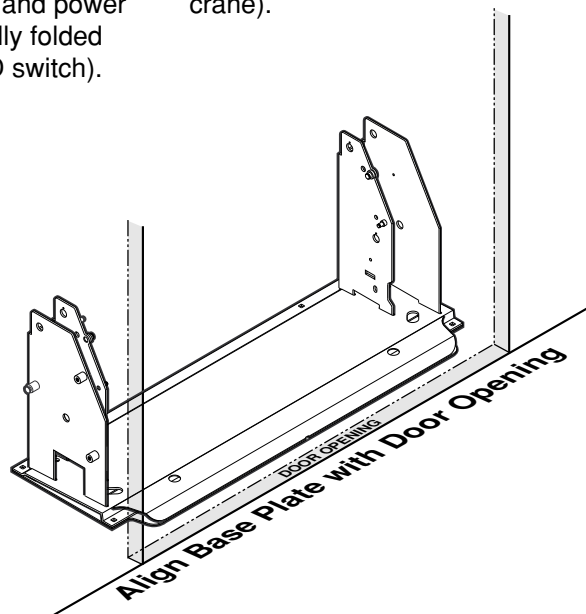


Plastic straps secure the lift in the stowed position during shipment. **Before removing the shipping straps**, install the lift and power the platform to the fully folded position (press FOLD switch).

With the unit remaining in the fully folded position, **carefully** place the lift in the vehicle (use hoist or crane).

Position base plate parallel (aligned) with side of vehicle (doorsill or stepwell).

Figure D



Lift Installation Instructions

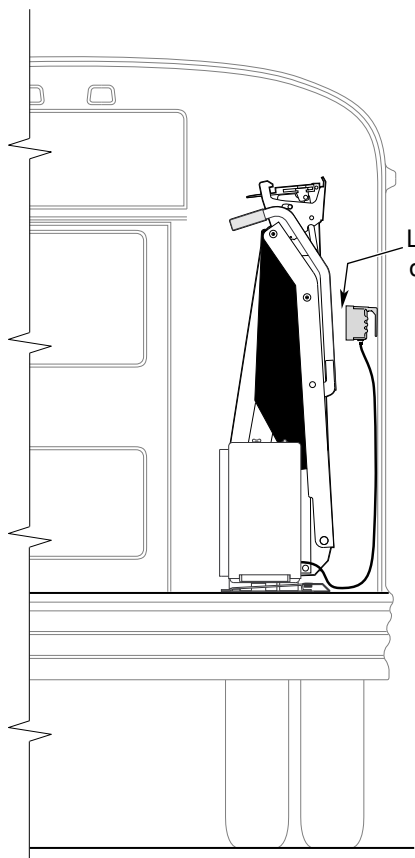


Figure E

Control Box Note: The lift control box mounts to the inside face of the lift door as shown. Allow control box clearance. Control box installation details are provided on pages 22 and 23.

Clearance:

Visually **center the unit in the opening**. Position the base plate parallel to (aligned with) the vehicle lift doorsill or stepwell as shown in Figure D. Close the vehicle door(s). From inside, position the unit as close to the door opening as possible while maintaining a **minimum clearance of 1/2"** between the nearest point on the lift and the door or door latch. See Figures E and F.

Alignment:

Side-to-Side Alignment: As viewed from outside the vehicle, the lift vertical arms and platform should be perpendicular (90°) to the vehicle floor and parallel (aligned) with the vertical sides of doorjamb. The vertical arms and the parallel arms **must** clear the door opening when the lift folds and unfolds. See Figure C on previous page.

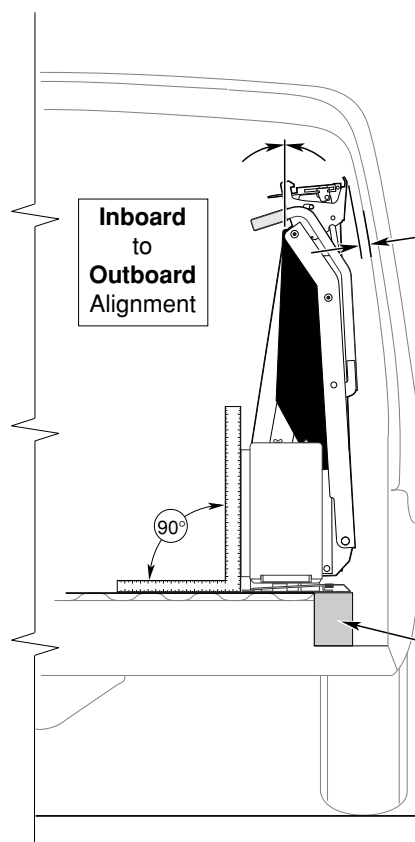


Figure F

**Minimum
1/2"
Clearance**

The lift vertical arms and parallel arms **must be parallel (aligned) to each other**. The lift towers should be perpendicular (90°) to the vehicle floor (**except when base plate shims are used**).

Stepwell Installations: It is **Not Permissible** for the base plate to overhang an **open** stepwell. Details at right.

Inboard-to-Outboard Alignment: When viewed from "pump side" to "opposite pump side," the vertical arms and parallel arms **must** be aligned and parallel to each other. See Figure F. The lift towers should be perpendicular (90°) to the vehicle floor **except when base plate shims are used** (details on page 12).

Stepwell Installations: When installing an L915 Series lift in the side cargo door (with stepwell), it is **not permissible** for the base plate to overhang the stepwell.

Additional base plate support **must** be constructed in the stepwell for lift support if the base plate overhangs the open stepwell. The structure **must** be level with the existing floor and of equivalent construction (structural strength).

Lift Installation Instructions

1

Lift Positioning (continued)

Rear Door and Extensive Floor-to-Ground Installations:

Position the lift in the rear door opening as outlined on pages 10 and 11. Depending on the particular lift model installed and the particular vehicle configuration, the top of the lift **may** need to be tilted inboard slightly to provide the **minimum 1/2" clearance** between the lift and the door(s) and/or to increase platform and vertical arm kick-out (to provide adequate clearance between lift and vehicle). See Figure G.

There must be a **minimum 1" clearance between the lift** (vertical arms and/or automatic inboard roll stop) **and the vehicle** during lift operation.

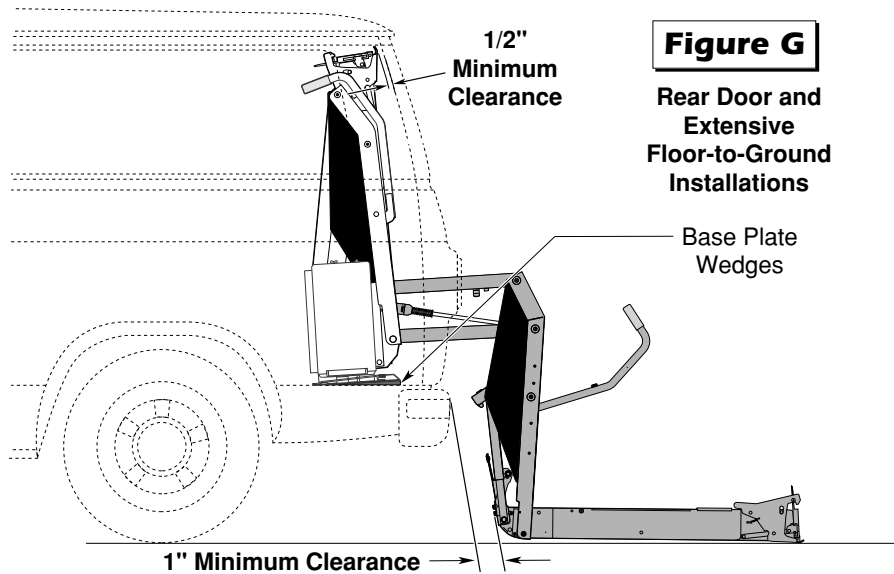


Figure G

Rear Door and Extensive Floor-to-Ground Installations

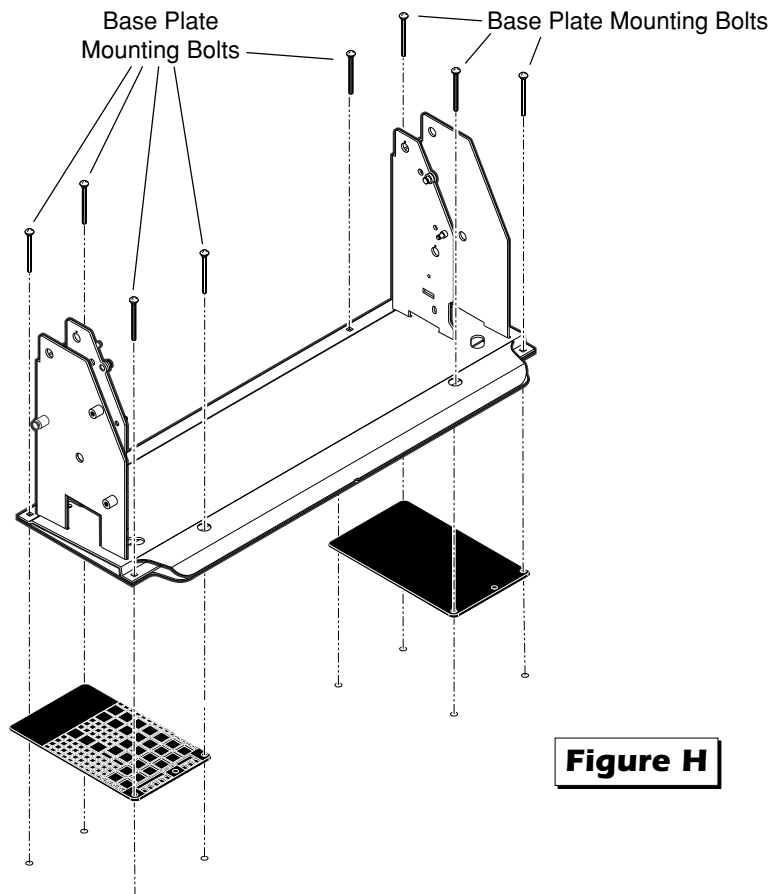


Figure H

Base Plate Wedges:

Four base plate wedges are supplied for shimming (tilting lift). The plastic wedges provide full depth base plate support. Use one or two wedges per base plate end as needed. Position the wedges by aligning the mounting holes in the wedges with the base plate mounting holes as shown in Figure H.

⚠ WARNING

Check for obstructions such as gas lines, wires, exhaust, etc. before drilling or cutting. Failure to do so may result in serious bodily injury and/or property damage.

Lift Installation Instructions

2 Lift Securement

Base Plate Mounting

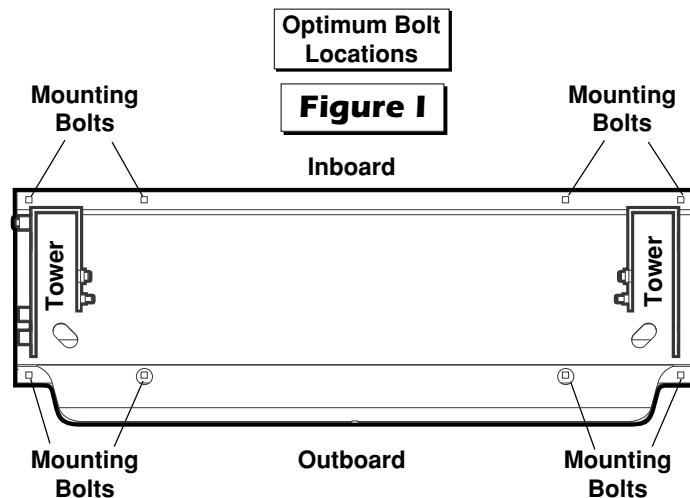
There **must be a total of eight** 3/8"-16 x 4" carriage bolts (or 8" bolts) **securing the base plate through the floor**. Two 3/8"-16 x 8" bolts are supplied for bolting through vehicle floor framing members if applicable.

Optimum Bolt Locations: The mounting bolts **must** be inserted in the mounting holes provided in the base plate. Locate mounting bolts as shown in Figure I (straddling the towers). The holes are positioned straddling the towers in order to minimize **vertical upright deflection** (details on page 16).

Read warning on opposite page. Check under the vehicle

for possible obstructions such as fuel tanks, heat shields, fuel lines, wires, exhaust, framing members, etc. **Carefully** drill eight 3/8" diameter mounting holes through the vehicle floor in alignment with the base plate mounting holes.

Base Plate Wedges: When base plate wedges are used, the outboard mounting bolts must be inserted through the mounting holes in the wedges (two per wedge). See Figure H on page 12.

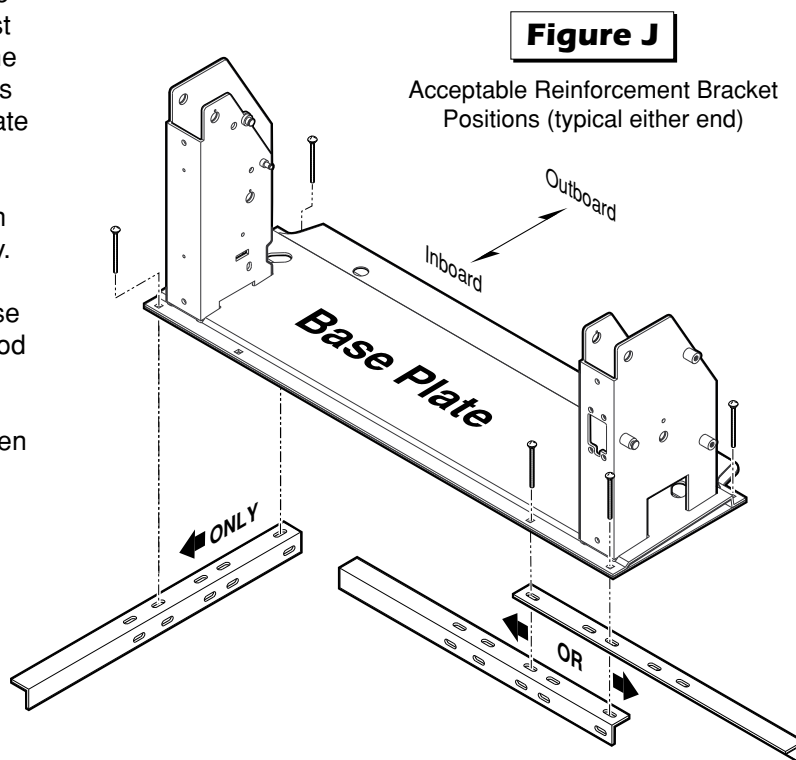


Underfloor Reinforcement Brackets

Two underfloor reinforcement brackets are supplied. One reinforcement bracket must be used to secure the base plate below the floor at both ends of the base plate (unless inboard base plate mounting bolts penetrate vehicle chassis subframe members).

OEM van floors are becoming lighter in an effort to improve weight and fuel efficiency. 1/2" marine grade plywood subfloor is recommended for use between the lift base plate and the van floor. Extend the plywood as far as possible beyond the base plate footprint to reach key van floor support points. The mounting surface must be even and level.

Underfloor reinforcement brackets can be positioned facing inboard, left or right as shown in Figure J. The spacing of the reinforcement bracket mounting holes matches the mounting hole spacing of the lift base plate (two standard size base plates). **Two base plate mounting bolts must secure each bracket.**



Lift Installation Instructions

2

Lift Securement (continued)

Underfloor Reinforcement Brackets (continued)

Two base plate mounting bolts must secure each bracket.

Underfloor reinforcement brackets **must reach and overlap the nearest subframe member flange** (see Figures J and K). Cut the “L” bars to length.

Technical Assistance: If the reinforcement brackets will not work as detailed for your particular installation, call 1-800-THE LIFT for technical assistance. If the base plate mounting holes cannot be used in your application, call for technical assistance. Underfloor vehicle configuration data is available for Ford, Chevy/GMC and Dodge vans (not available for all applications).

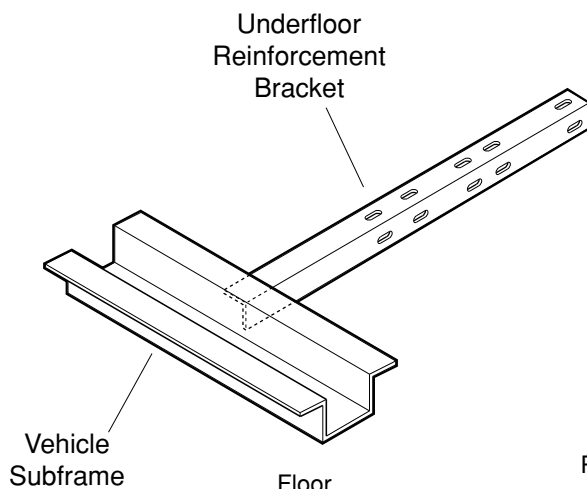
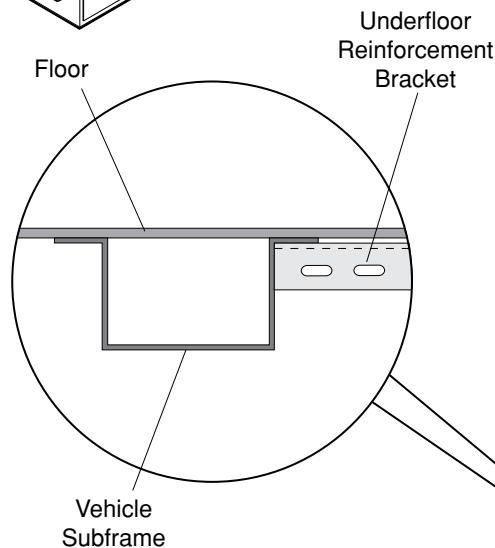


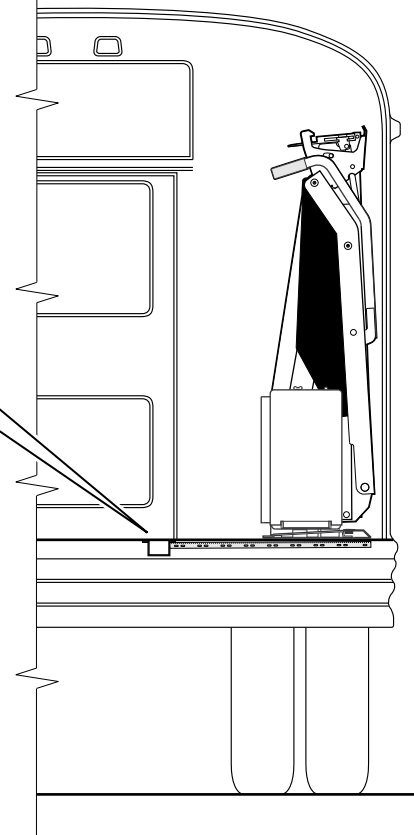
Figure K

Underfloor reinforcement brackets **must reach and overlap nearest subframe member flange.**



⚠ WARNING

Check for obstructions such as gas lines, wires, exhaust, etc. before drilling or cutting. Failure to do so may result in serious bodily injury and/or property damage.



Lift Installation Instructions

External Tooth Star Washers

Eight 3/8" external tooth star washers are supplied with each lift. Position star washers as follows.

Through Floor Only: When base plate mounting holes penetrate the floor only, position a star washer between the floor and the 2-1/2" diameter body washer as shown in Figure A on page 9.

Through Reinforcement Brackets: When reinforcement bars are used, position the star washer between the chassis and the bar (see Figure A).

Through Chassis: When securing base plate mounting bolts through chassis subframe members, position a star washer between the chassis and the 3/8" diameter flat washer (see Figure A).

Note: Body washers are not required when underfloor brackets are used or bolts penetrate chassis subframe members.

Ford Rear Door Installations:

All four underfloor reinforcement brackets **must be used** (see Figure L).

Once the lift is positioned, locate and drill the eight base plate mounting holes as outlined on page 13.

Position reinforcement brackets front-to-rear aligned with each set of base plate mounting bolts. Each reinforcement bracket must overlap the two chassis crossmember flanges as shown in Figure L.

Note: It may be necessary to drill additional mounting holes in the brackets (per lift positioning).

Tighten base plate mounting bolts as outlined on page 16.

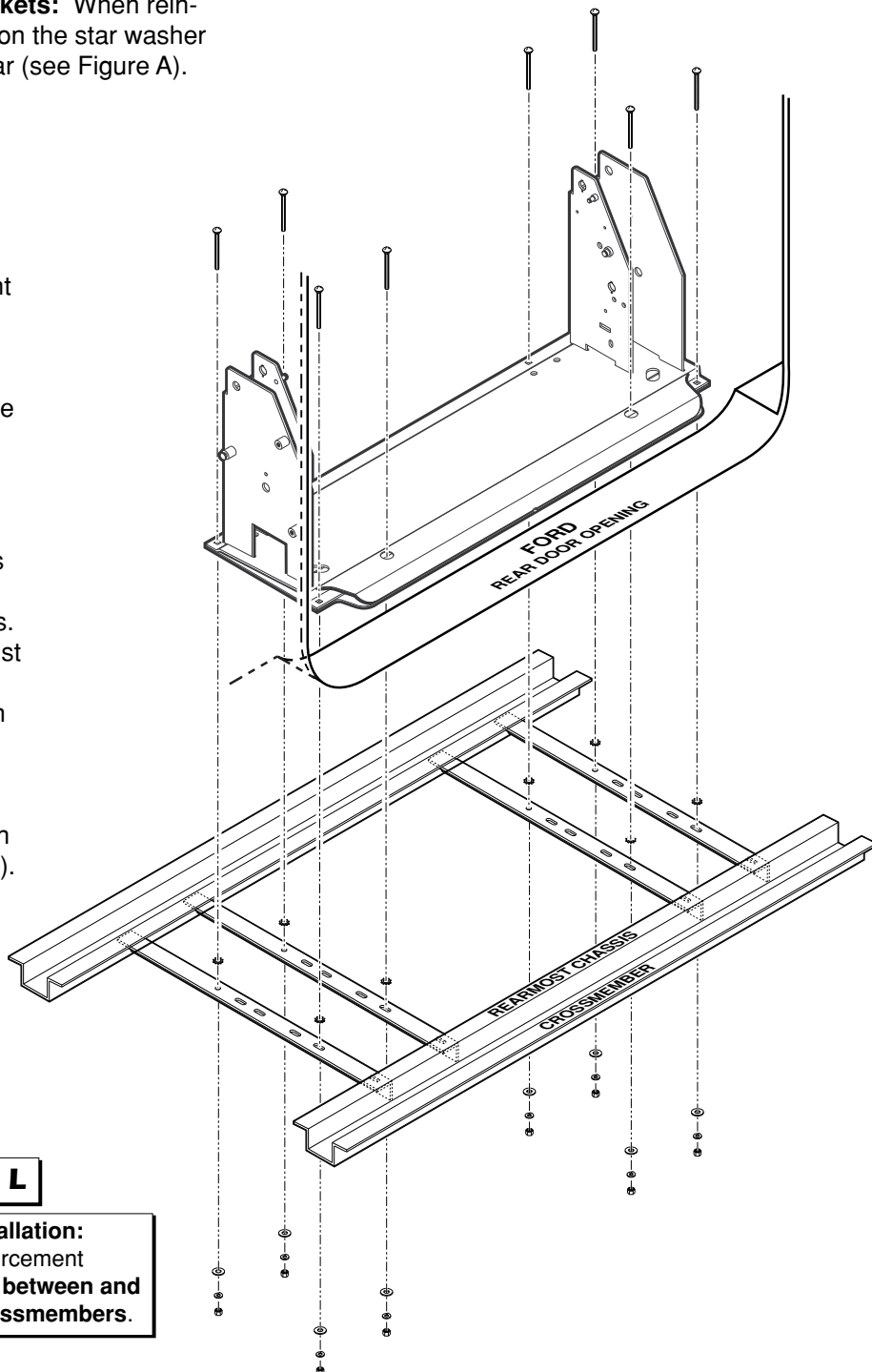


Figure L

Ford Rear Door Installation:
Four underfloor reinforcement brackets **must reach between and overlap two rear crossmembers.**

Lift Installation Instructions

2 Lift Securement (continued)

Bolt Tightening

Tightening of the base plate mounting bolts directly affects vertical arm alignment and base plate warpage. Tighten inside mounting bolts first, then tighten outside mounting bolts. Measure

alignment of towers and vertical arms while tightening. See Figure M. **Note:** Towers must be aligned and parallel, with platform side plates securely nested in the guided stow blocks. See Photos A and B.

Mounting Bolt Torque Specifications: 28 to 31 foot pounds. Adjustment to mounting bolt torque may be required to achieve proper alignment. See **Design Lifting Capacity** on page 24 also.

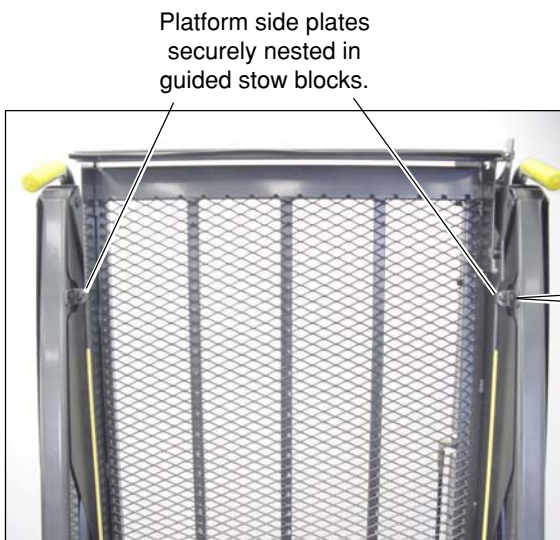
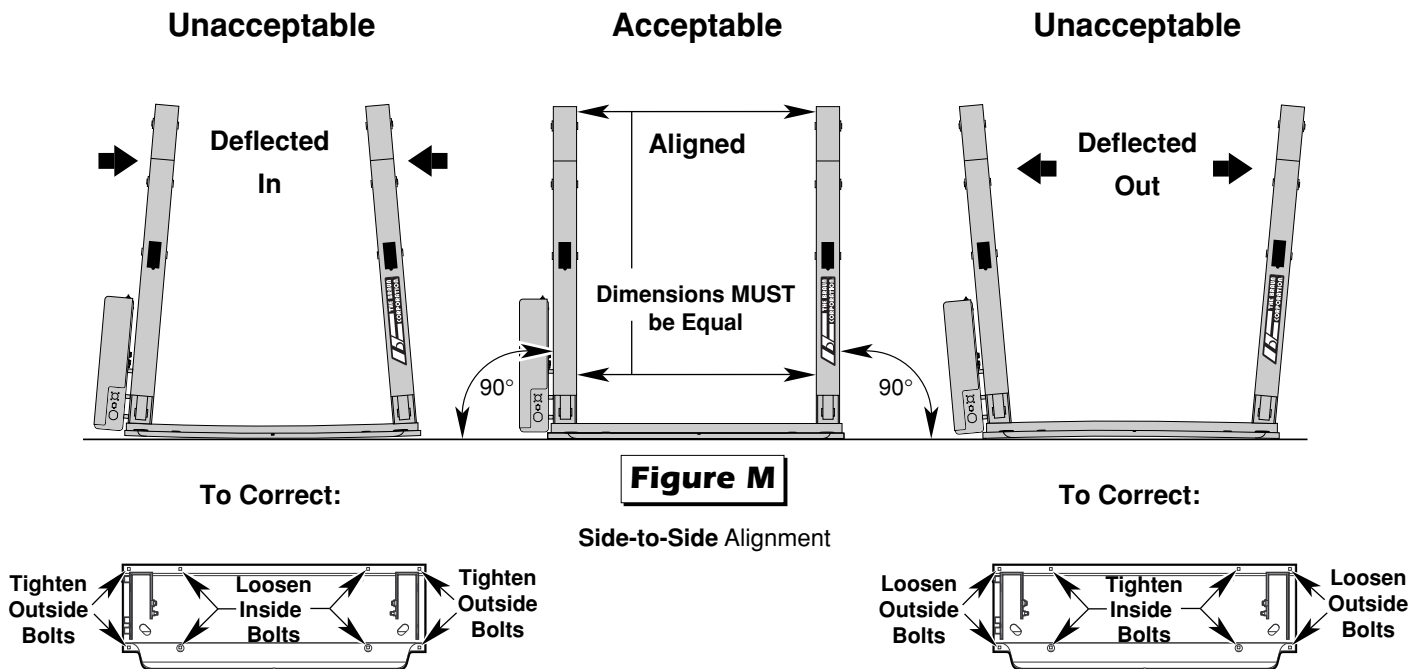


Photo A

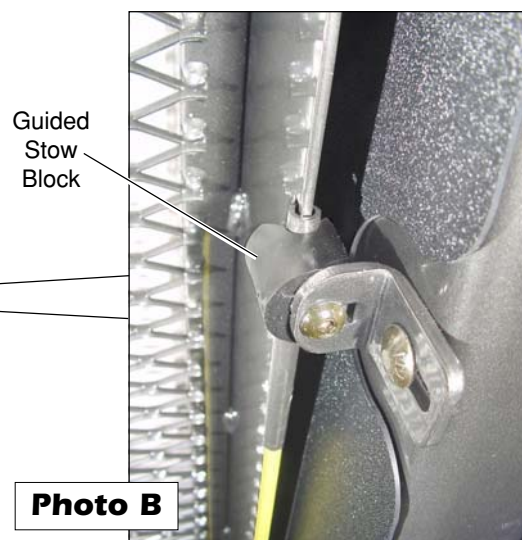


Photo B

Platform side plate securely nested in guided stow block (typical both sides).

Lift Installation Instructions

3 Power Cable and Ground Cable Installation

Millennium pump modules feature a pump-mounted ground cable and an external stud for connection of the lift power cable. A 1" I.D. plastic grommet is provided for the power cable and ground cable access hole. Install grommet, ground cable and power cable as outlined.

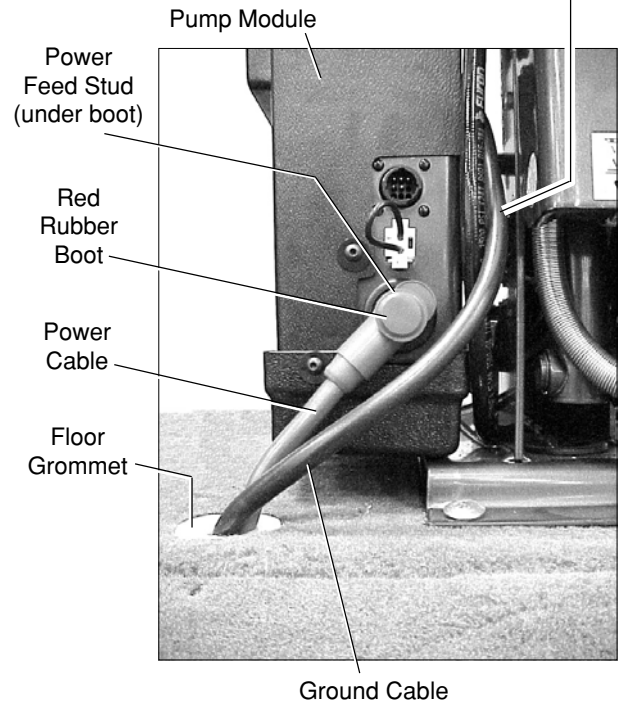
Floor Grommet:

Note below-floor obstructions. Check under the vehicle to determine where the **optimum** through-floor access is available with **minimum** obstructions. The recommended grommet location is through the floor (pump side) approximately two to three inches from the pump module as shown.

⚠ WARNING

Check for obstructions such as gas lines, wires, exhaust, etc. before drilling or cutting. Failure to do so may result in serious bodily injury and/or property damage.

Use the 1-1/8" diameter hole saw to drill the grommet access hole. Insert the grommet in the hole. Use two self-tap screws to secure the plastic grommet.



⚠ CAUTION

Position and secure ground cable clear of lift operation.

Power Cable:

A red rubber boot is supplied in the installation package to insulate the power cable connection. Slip the boot onto the power cable end (with terminal). Remove the 3/8" hex nut and star washer from the external power feed stud. Place the power cable terminal onto the stud and secure with the star washer and nut. **Tighten securely.** Position the rubber boot over the cable end as shown in the above photo.

Locate the vehicle battery pack. Route the 37' power cable through the grommet to the battery location. Route the power cable through an existing vehicle access hole at the battery pack

location. **Route power cable clear of exhaust, other hot areas and moving parts.**

Cut the lift cable to the necessary length, (it **must reach to within 24" of the battery**). Strip 1/2" of insulation from the cable end and crimp the 1/4" diameter terminal onto the cable **securely**. The power cable will be connected to the Circuit Sentry (details on pages 20 and 21).

Note: Route, cut to length and connect the power cable **before** securing the cable to the vehicle. Secure all cables using cable ties and/or cable clips (mount clips with self-tap screws).

Ground Cables

Two ground cables are provided with each lift. **See Lift Ground** on pages 18 and 19 for details.

⚠ WARNING

Route power cable clear of exhaust system, other hot areas and moving parts. Failure to do so may result in serious bodily injury and/or property damage.

Lift Installation Instructions

3 Power Cable and Ground Cable Installation (continued)

Lift Ground

Two ground cables are provided. One ground cable is pump mounted (shown in photo on page 17). The second ground cable is external (battery mounted). Both cables must be mounted to a common vehicle framing member to provide **optimum ground**. Refer to following details and Figure O.

Ground Cable Corrosion:

When mounting ground cables, remove undercoating, dirt, rust, etc. from the framing member around the mounting holes (minimum 5/8" diameter area). Apply a protective coating of grease to mounting holes to prevent corrosion. Apply grease to ground cable terminals and mounting screws also. **Failure to do so will void warranty of certain electrical components.**

Secure all cables using cable ties and/or cable clips (mount clips with self-tap screws).

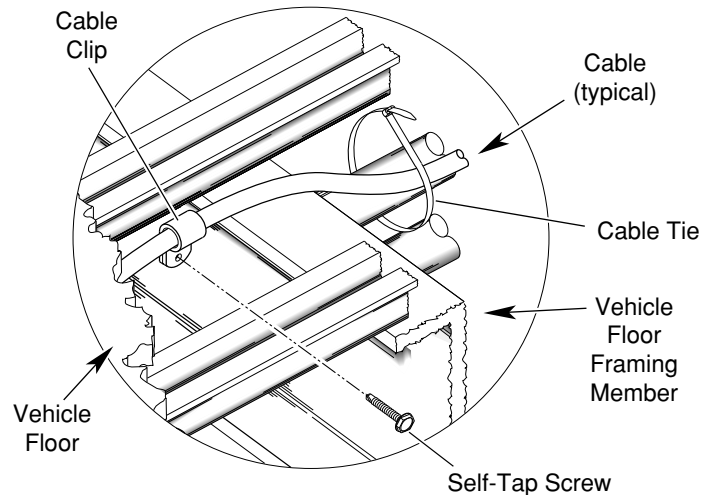


Figure N

Pump-Mounted Ground Cable:

Route the pump ground cable through the plastic floor grommet (shown in Figure O and the photo on page 17). Position and secure the ground cable clear of lift operation.

⚠CAUTION

Position and secure pump ground cable clear of lift operation.

Secure the cable to a main vehicle framing member. Drill a 9/32" diameter pilot hole in the frame. Mount the cable using a 5/16-18 x 3/4" thread cutting screw. Position a 5/16" external tooth star washer between the cable eye terminal and the frame. Prepare the cable mounting surface and apply grease to frame and hardware as previously detailed (see **Ground Cable Corrosion**).

⚠WARNING

Route ground cables clear of exhaust system, other hot areas and moving parts. Failure to do so may result in serious bodily injury and/or property damage.

Lift Installation Instructions

Ground Cables: The pump ground cable and battery-to-frame ground cable **must** be mounted to a common vehicle framing member to provide **optimum ground**.

Power Cable: Route, cut to length and connect the power cable **before** securing the cable to the vehicle.

Connect battery-to-frame ground cable to **negative (-)** battery post.

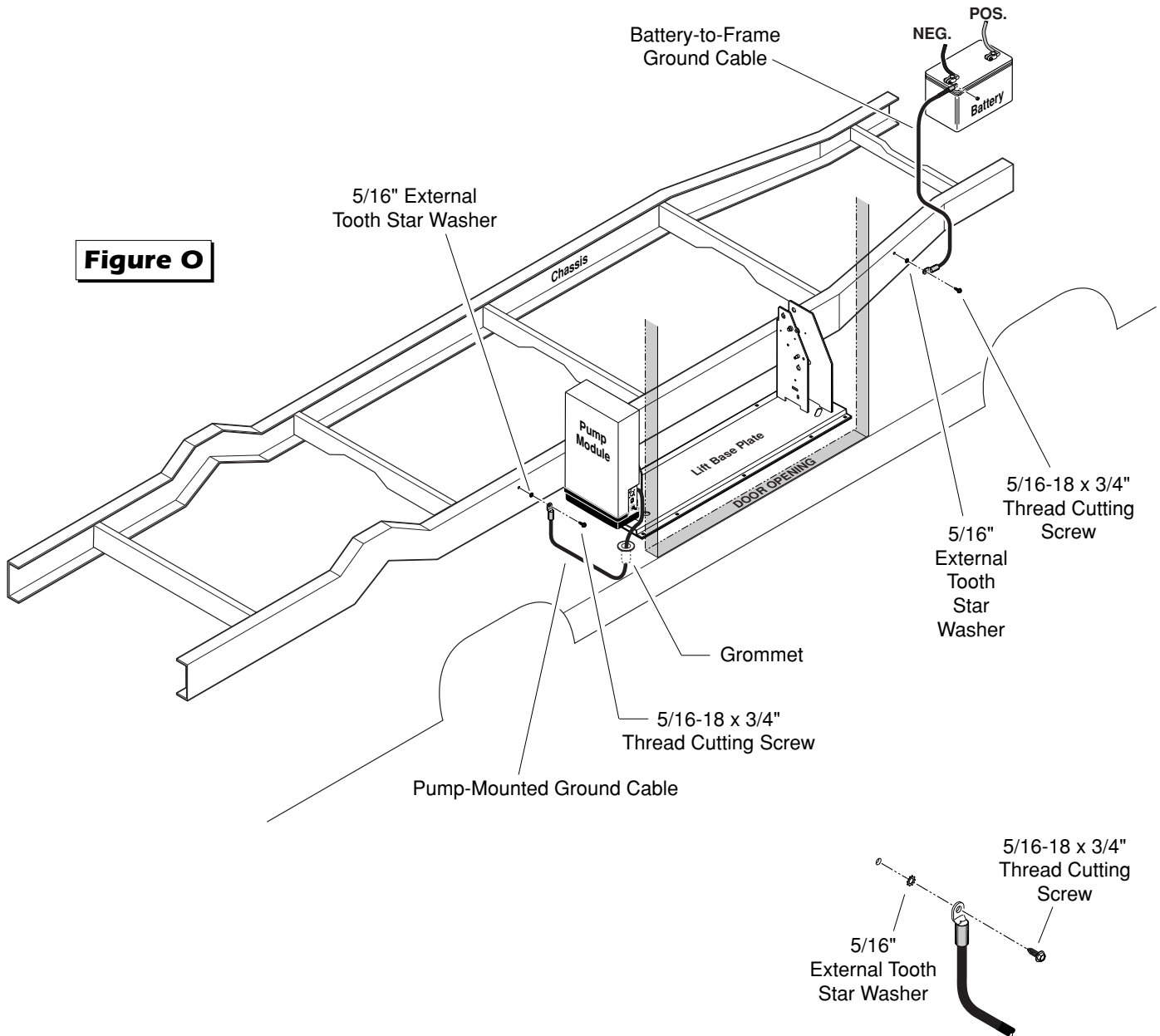


Figure O

Vehicle Battery Ground Cable:

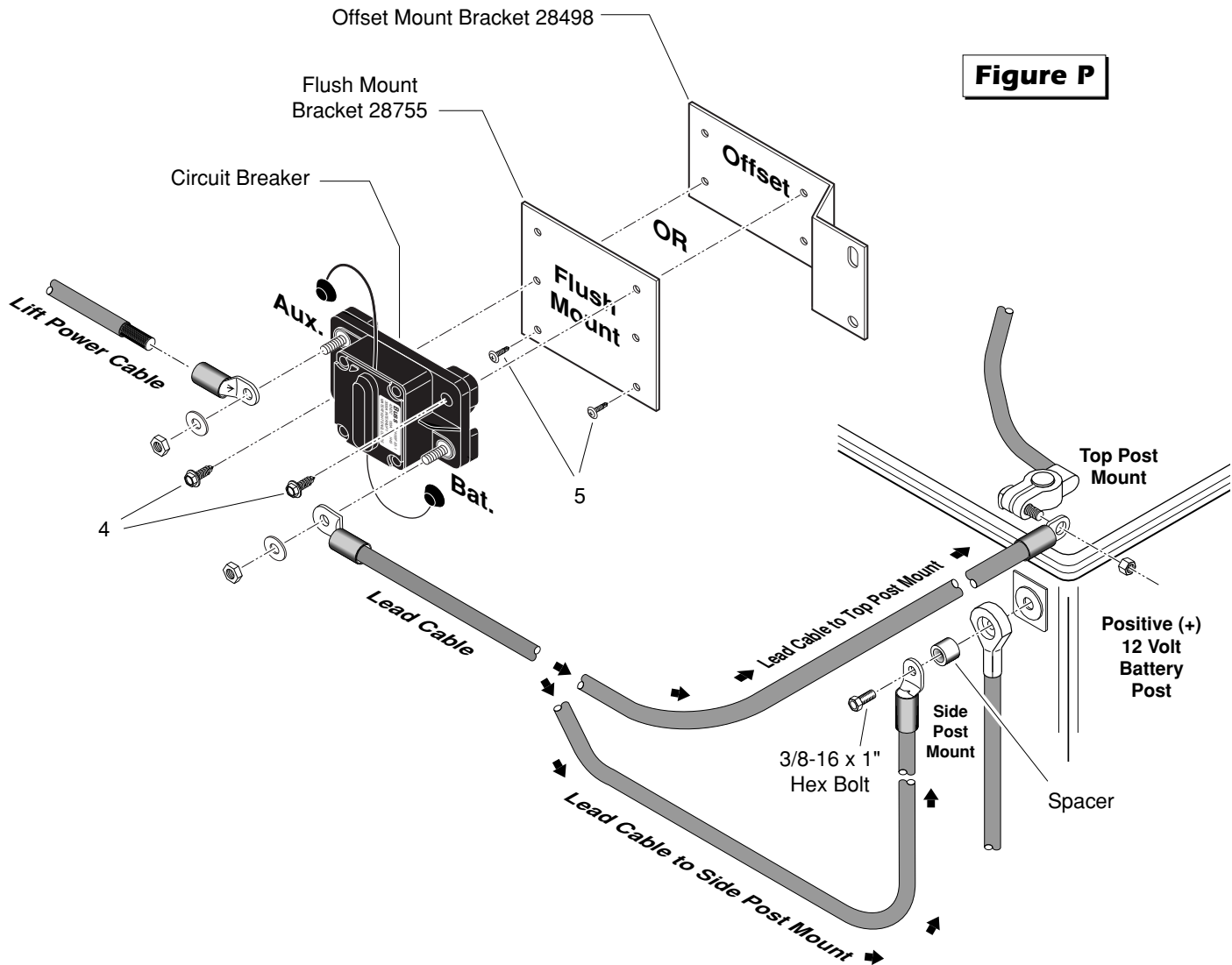
The external battery-to-frame ground cable supplied with the lift **must be** connected to the same vehicle framing member that the pump ground cable is attached to. Connect the cable to the **negative (-)** battery post. **Note:** A 3/8-16 x 1" bolt and a 13/32" I.D. x 1/2" tubing spacer are provided for side terminal mount batteries (if applicable).

Secure the opposite end of the cable to the vehicle framing member. Drill a 9/32" diameter pilot hole in the frame. Mount the cable using a 5/16-18 x 3/4" thread cutting screw. Position a 5/16" external tooth star washer between the cable eye terminal and the frame. Prepare the cable mounting surface and apply grease to frame and hardware as previously detailed in **Ground Cable Corrosion** on page 18.

Mounting Hardware Detail

Lift Installation Instructions

4 Circuit Sentry Installation and Power Connection



Note: Compact Circuit Sentry Kit 28910KS is currently supplied with 12 volt lift models. Photos of the compact Circuit Sentry installed in Dodge and Ford vans appear in Service Bulletin 28911 (supplied with each Compact Circuit Sentry Kit 28910KS).

Compact Circuit Sentry Kit 28910KS

Item	Qty.	Description	Part No.
1	1	Bracket, Flush Mount (Dodge)	28755
2	1	Bracket, Offset Mount (Ford/Chevy)	28498
3	1	Circuit Breaker, 100 Amp.	28704
4	4	Screw, 1/4-14 x 1", Self-Drilling, Hex	14145
5	4	Screw, #8-18 x 3/4", Self-Drilling, Wafer Hd.	18790
6	1	Decal, 100 Amp. Circuit Sentry	18181

Lift Installation Instructions

Circuit Sentry Kit 28910KS is supplied to provide greater installation versatility (less space required). Two types of mounting brackets are supplied (shown in Figure P). Bracket 28755 is a flush mount bracket (without offset). Bracket 28498 is an offset mount bracket. Either bracket can be used as desired.

Select an appropriate mounting surface in the engine compartment or vehicle battery location. Select the appropriate mounting bracket based on the available

mounting surface and other variables. Mounting brackets can be oriented as needed.

The Circuit Sentry must be positioned such that the lead cable will reach the vehicle battery. Locate the Circuit Sentry within 24" of the **positive (+)** battery terminal.

Note: Photos of the compact Circuit Sentry installed in Dodge and Ford vans appear in Service Bulletin 28911 (supplied with each Compact Circuit Sentry Kit).



Mount Circuit Breaker

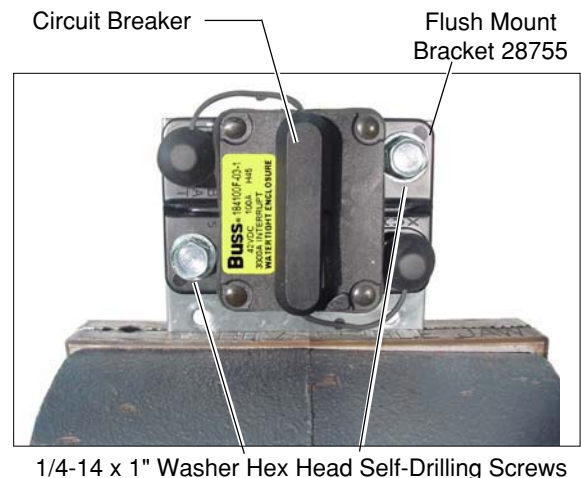
Mount the circuit breaker to the mounting bracket. See Figure P and photo at right. Four .191" diameter holes spaced 1" apart are provided in each mounting bracket. The holes match the pattern of circuit breaker mounting holes.

Place the bracket securely in a vice gripping the edge that does not obstruct positioning of the circuit breaker (see photo). Mount the breaker to the bracket using two 1/4-14 x 1" washer hex head self-drilling screws.

#8-18 x 3/4" wafer head self-drilling screws are supplied to mount the circuit breaker and mounting bracket assembly.

Note: Optional (OEM) mounting hardware can be utilized in some applications. Mount the bracket as needed.

Check for obstructions such as fuel lines, coolant lines, wires, exhaust, etc. **before drilling.**



Cable Connections

Remove the rubber caps attached to the circuit breaker terminals. Attach the lift power cable to the **Auxiliary** terminal of the Circuit Sentry. Attach one end of the battery lead cable to the Circuit Sentry **Battery** terminal. Tighten securely. Reposition the rubber caps onto the breaker terminals to prevent electrical short circuits. **Carefully** connect the opposite end of the battery lead cable to the **Positive (+)** post of the battery.

Decal 18181

Post decal 18181 adjacent to the Circuit Sentry assembly (provides circuit breaker reset instructions).

Note: Clean the surface with isopropyl alcohol **before** decal application. Use a clean cloth or paper towels. **DO NOT** use oily shop rags. Wipe surface free of residue with dry portion of cleaning cloth.

Lift Installation Instructions

5 Control Box and Harness Installation

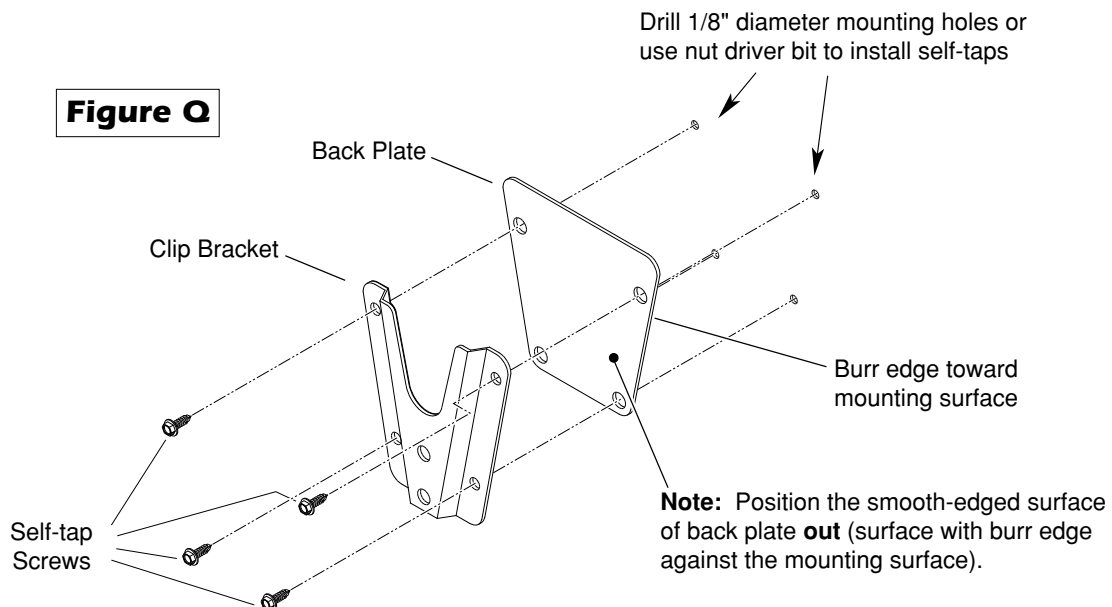
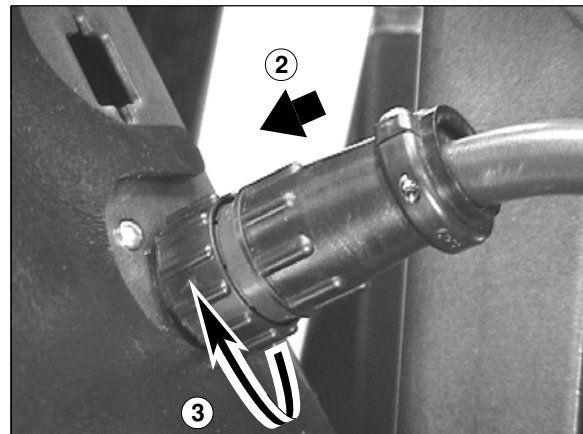
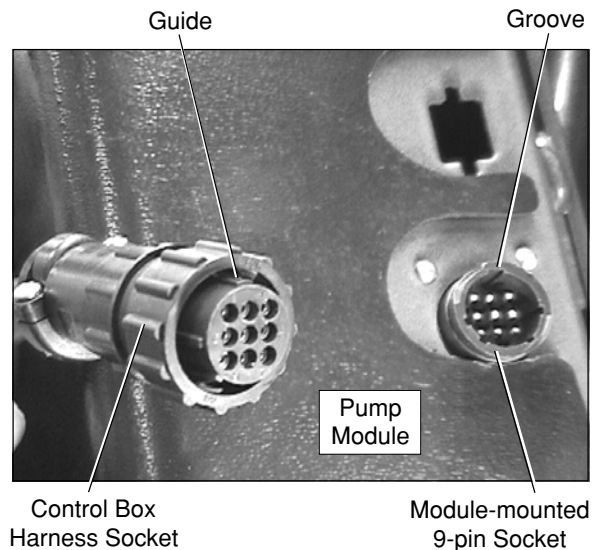
Quick-Disconnect Harness: “Quick-disconnect” hand-held controls are available with three types of cable (standard, armored and coiled). L915 Series lifts are shipped without the control box harness installed. All harnesses are equipped with the same quick-disconnect sockets. Connect the control box harness as outlined below.

Harness Installation (Connect) Instructions

1. Align control box harness socket guides with pump module socket grooves (will only connect one way).
2. **Carefully** insert control box harness socket in module socket.
3. Turn control harness socket **inside** knurled grip clockwise fully.

Harness Removal (Disconnect) Instructions

Reverse Steps 2 and 3 above.



Lift Installation Instructions

Control Box Mounting: The control box mounts to the inside face of the lift cargo door as shown in the center photo below. Mounting location varies depending on lift and vehicle door applications.

Note: Close the vehicle door and select a mounting location for the control box (**prior to fastening hardware**) to be certain the control box **does not** contact the lift. See Figure E on page 11.

Use four #8-18 x 1/2" self-tap screws to mount the control box holder back plate and the switch box

storage clip bracket to the door as shown in Figure Q on page 22. Insert control box storage clip in holder assembly.

Control Box Storage Clip Breakage Note:

Position the smooth-edged surface of the back plate **out** (surface with burr edge against the mounting surface). One surface of the plate may have a slight burr on the edge (due to machining) which prohibits smooth removal and storage of the switch box.

Harness Routing and Securement: Control box cable routing and securement varies according to the application. **Route and secure cable clear of potential door and lift damage!**

Door opens to "Pump Side:" Route the control box cable out to the interior face of the door. There must be enough free cable to allow attendant usage. The cable **must be fastened securely to vehicle wall and the door with just enough slack cable to allow the door to open.**

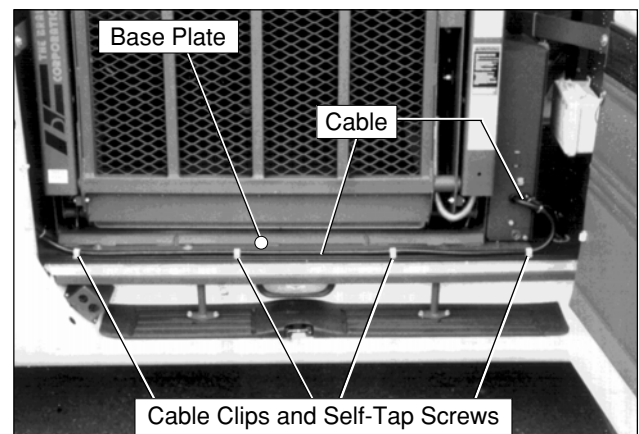
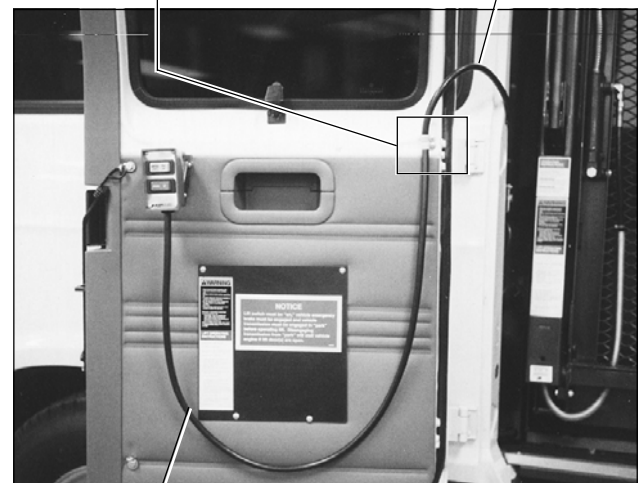
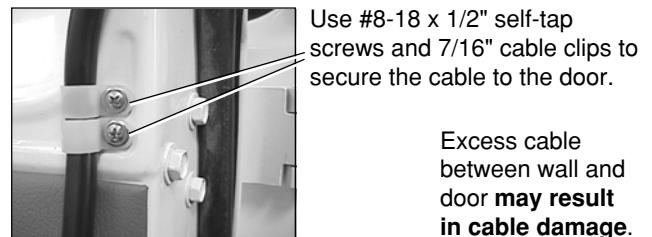
⚠CAUTION

Excess slack cable between vehicle wall and door may result in cable damage.

Excess slack cable between the wall and the door could allow the cable to be pinched in the door jamb when the door is closed. **Failure to follow this procedure may result in cable damage.**

Use #8-18 x 1/2" self-tap screws and 7/16" cable clips to fasten the cable to the door as shown in top photos. Fasten the cable to vehicle wall using #8-18 x 1/2" self-tap screws and 7/16" cable clips.

Door opens to "Opposite Pump Side:" Route the control box cable alongside the outboard edge of the lift base plate (between base plate and door sill) and out to the interior face of the door as shown in bottom photo. Secure cable to door as outlined above.



Lift Installation Instructions

Design Lifting Capacity

Millennium Series lifts are rated at a design lifting capacity of 800 pounds. The combination of lift base plate, mounting bolts, underfloor reinforcement bars and the vehicle floor/chassis configu-

ration **must support the lift and the lift load.**

Note: Visually check alignment of towers and vertical arms while testing lift operation. Refer to the

Positioning and Clearance Checklist and corresponding illustrations. **Note:** Refer to the **Bolt Tightening** section and Figure M on page 16 also. Adjust tightness of mounting hardware to maintain proper alignment.

6 Test Lift Operation

Open the door(s) **fully**, stand clear and press the orange UNFOLD switch. Observe all points of the lift as it unfolds to be **certain** that the lift **does not contact** the door opening. If any contact occurs, the lift **must be repositioned**.

Press the red DOWN switch to lower the platform. There must be a **minimum 1" clearance** between the lift and the vehicle as the platform lowers. The lift **must be repositioned** if there is

not a **minimum 1" clearance**.

Review the **Positioning and Clearance Checklist**. **Be certain** the lift is properly positioned and clearance is adequate. The lift **must be repositioned if any contact occurs!**

Repositioning: Loosen or remove mounting hardware and **carefully reposition the lift if needed** to meet the positioning and clearance specifications.

Then, bolt the lift in position as detailed in Step 2.

Review lift securement details in Step 2 to ensure the lift is properly mounted.

Note the angle of the platform when it reaches ground level. **Platform angle must** be properly adjusted. Follow the **Platform Angle Adjustment Instructions** on pages 28 and 29 to achieve the proper platform angle.

☒ Positioning and Clearance Checklist

Vehicle Clearance:

☐ Vertical arms and parallel arms **must** clear door opening (vertical sides) as lift unfolds and folds (see points 1 and 2).

☐ Parallel arms (bottom side) **must** clear doorsill when lift is fully lowered (see point 3).

☐ There **must** be a **minimum 1/8" clearance** between the deployed bridge plate and any obstruction on the vehicle floor (see point 4).

☐ There **must** be 1/2" clearance between the lift and the vehicle door(s) when the platform is completely folded (see point 5).

☐ Lift **must** clear door-mounted control box when door is closed (see point 6).

☐ The lift **must** clear vehicle by **minimum 1"** (see point 7).

Lift Installation Instructions

☒ Positioning and Clearance Checklist

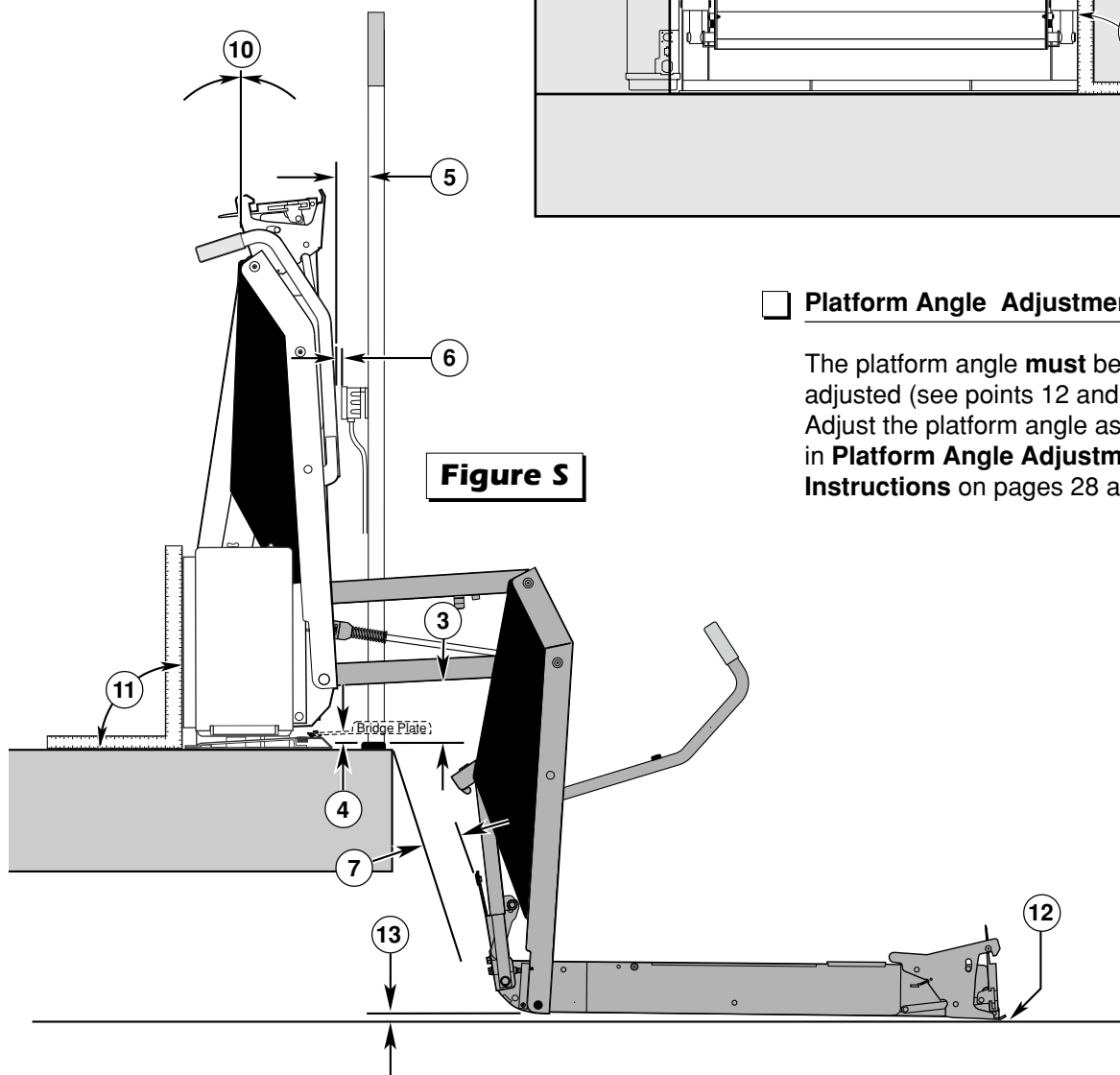
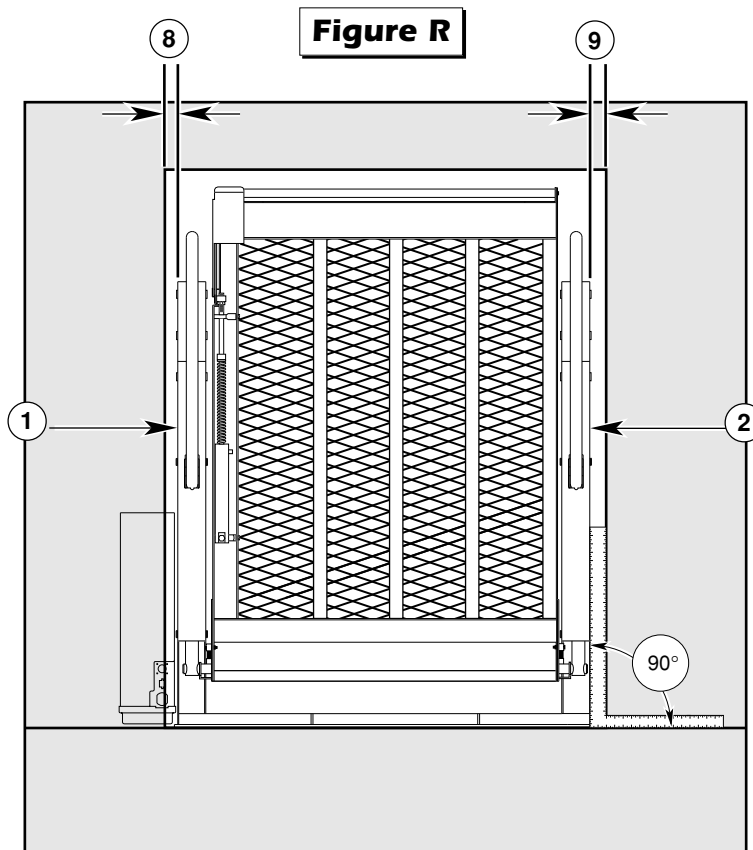
Alignment:

☐ "Side" to "Side" Alignment:

As viewed from outside the vehicle, the lift vertical arms and platform (when stowed) should be perpendicular (90°) to the vehicle floor and parallel (aligned) with the sides of doorjamb (see points 8 and 9).

☐ "Inboard" to "Outboard" Alignment:

The vertical arms and parallel arms **must** be aligned (parallel) to each other (see point 10). The towers should be perpendicular (90°) to the vehicle floor **except when base plate shims are used** (see point 11).



☐ Platform Angle Adjustment:

The platform angle **must** be properly adjusted (see points 12 and 13). Adjust the platform angle as detailed in **Platform Angle Adjustment Instructions** on pages 28 and 29.

Lift Installation Instructions

7 Platform Angle Adjustment and Floor Level Adjustments

⚠ WARNING

Adjust platform angle and bridge plate floor level position as detailed in this manual before operating lift with a passenger. Failure to do so may result in serious bodily injury and/or property damage.

The platform angle and floor level positioning of the bridge plate (inboard roll stop) **must be properly adjusted before operating the lift with a passenger.**

Adjust the platform angle as detailed in Platform Angle Adjustment Instructions on pages 28 and 29.

Adjust the floor level positioning of the bridge plate as detailed on pages 30-32.

8 Base Plate Plugs

Two plastic plugs (1" I.D. x 1-1/4" O.D. end caps) are supplied. Insert one plug in each of the two inboard base plate mounting holes as shown in Figure T (if applicable).

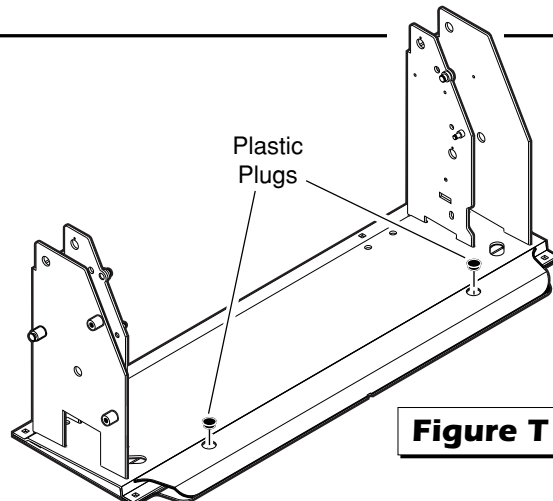


Figure T

9 Decal Application

⚠ WARNING

Replace missing, worn or illegible decals. Failure to do so may result in serious bodily injury and/or property damage.

Affix Warnings and Lift Operating Instructions decal 27204 and ADA Standee and Interlock decal 19342 to the vehicle door in a highly visible location near the control box as shown. Two Courtesy Requested decals are supplied to be posted on the vehicle as desired.

Replace any missing, worn or illegible decals!

Note: Clean surfaces with isopropyl alcohol before decal application. Use a clean cloth or paper towel. **Do not** use oily shop rags. Wipe surface free of residue with dry portion of cleaning cloth.



Warnings and Lift Operating Instructions Decal 27204

ADA Standee and Interlock Decal 19342

Lift Installation Instructions

10 Passenger's Seat (Vans)

Reinstall passenger's seat in suitable location using the **original (OEM) mounting hardware** if previously removed. **Torque seat mounting hardware per manufacturer's specifications.**

11 Owner's Manual

⚠ WARNING

The lift operator's manual must be stored in the lift-mounted manual storage pouch at all times. Failure to follow this rule may result in serious bodily injury and/or property damage.

Be certain the lift owner's (operator's) manual is in the lift-mounted manual storage pouch.

12 Quiet-Ride Adjustment Instructions

Adjustable Quiet-Ride Guided Stop Blocks and fixed rubber bumpers mounted at key locations aid in eliminating or reducing potential rattles. Improper installation procedures can result in potential rattles also. If lift rattles occur, review the details in the Quiet-Ride Adjustments section on pages 34 and 35 for possible source(s) and remedies.

13 Lift Installation Checklist

A generic Lift Installation Checklist is provided as a final installation checklist to be given to your customer. The Lift Installation Checklist is the last page in this

manual. Complete, remove (tear out) and forward the Installation Checklist to your customer to confirm that this lift has been properly installed.

Platform Angle Adjustment Instructions

⚠ WARNING

Adjust platform angle as detailed here. Failure to do so may result in serious bodily injury and/or property damage.

Adjusting the platform angle based on the relationship of the platform at ground level directly affects the angle of the platform when positioned at floor level. The platform angle **must** be adjusted so there is a balance between the angle at both positions (**equal amount of angle**). **Angle A** should **equal angle B** as shown at right (center).

Unfold the lift and visually examine the angle of the platform when positioned at floor level. Lower the platform fully and note the angle of the platform when it reaches ground level also. The **outboard end of the platform should contact the ground first** when the platform is lowered.

Normal (Average Floor-To-Ground) Installations: Typically there should be **approximately 3/4" to 1"** clearance between the inboard end of the platform and the ground when the outboard end of the platform contacts the ground.

Rear Door and Extensive Floor-To-Ground Installations: Installations where base plate wedges are used to tilt the lift inboard for adequate rear bumper clearance, **and** installations in vehicles with extensive floor-to-ground dimensions, require more platform angle adjustment than normal. **Before** the platform angle is adjusted in these types of installations, typically the outboard end of the platform will be angled severely upward when positioned at floor level as shown top right.

Adjustment Allen screws are provided on each side of the lift platform for adjusting the platform angle. Details and photos are provided on the next page.

Floor Level Adjustment: Check bridge plate positioning as outlined on pages 30-32 when adjusting platform angle.

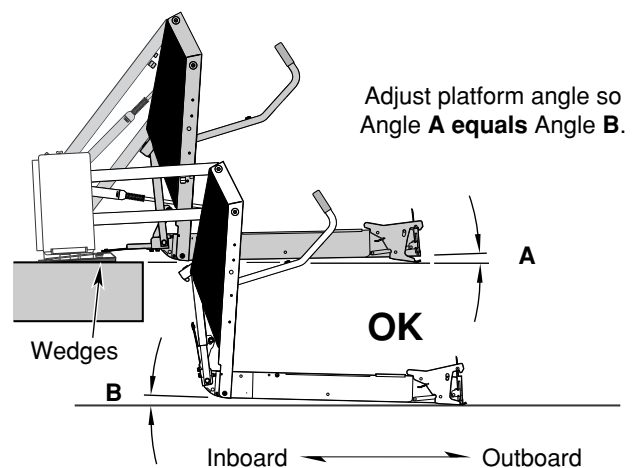
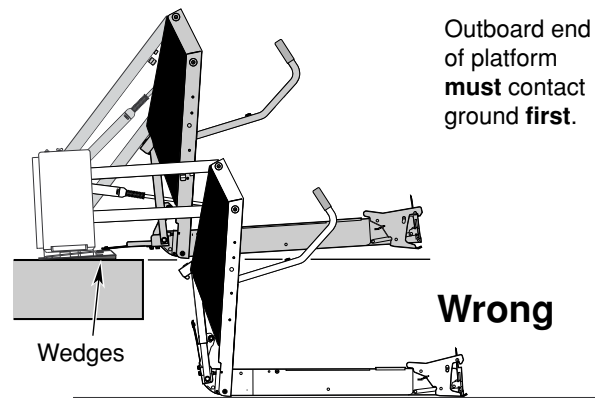
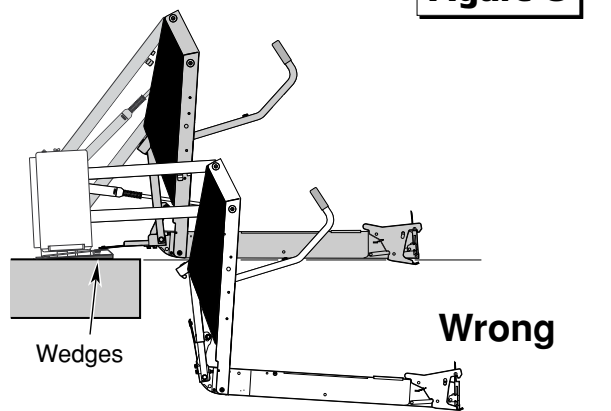


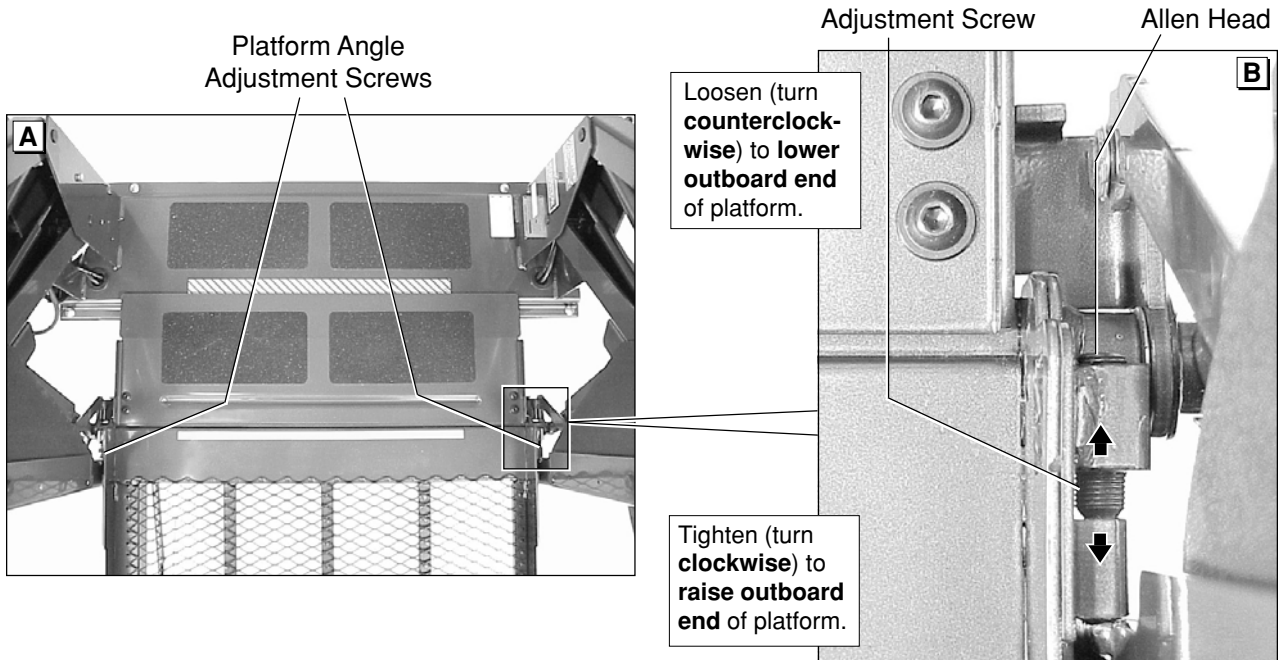
Figure U



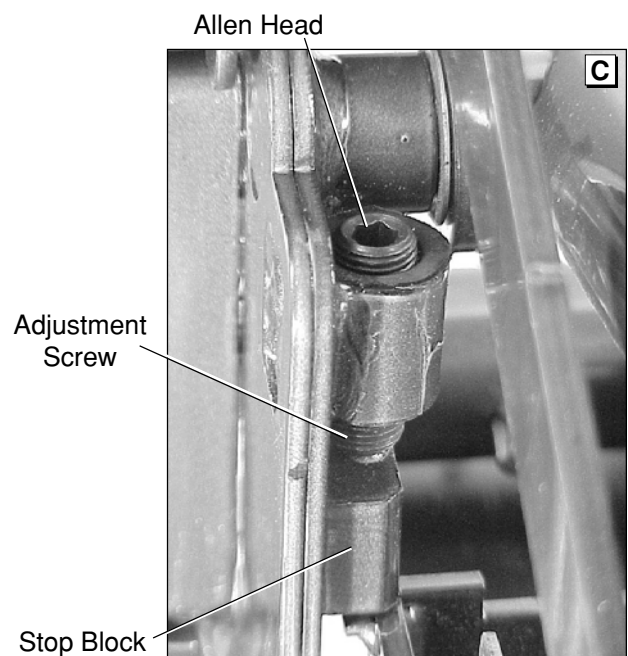
Platform Angle Adjustment Instructions

Adjustment Allen screws are provided on each side of the lift platform for adjusting the platform angle. Turn the adjustment screw **clockwise** to **raise** the **outboard end** of the platform. Turn the adjustment screw **counterclockwise** to **lower** the **outboard**

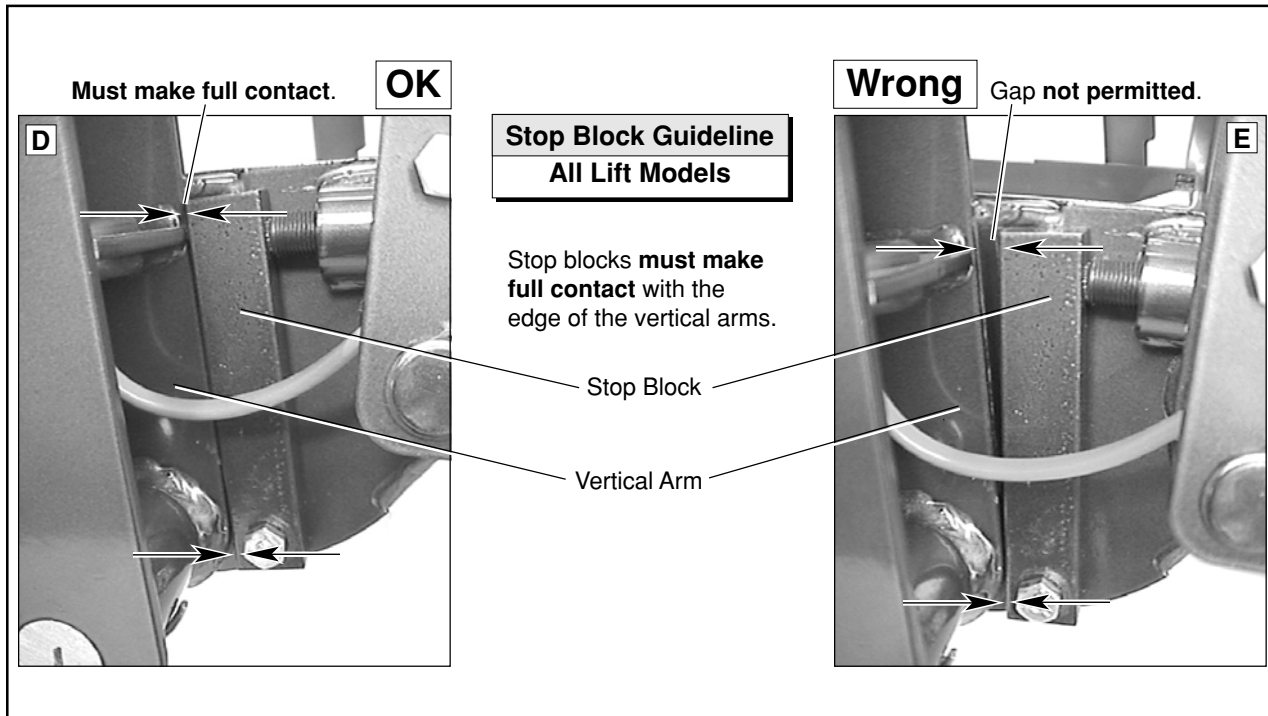
end of the platform. **Note: Both** adjustment screws **must be adjusted equally**. Adjust platform angle as needed. See Figure U on previous page. Apply Loctite® to adjustment screws following adjustment.



Floor Level Adjustment and Platform Stop Blocks: Platform stop blocks and floor level positioning must be viewed during platform angle adjustment procedures. **Stop blocks** on the inboard section of platform **must be making full contact with the vertical arms** (details on pages 30-32).



Floor Level Guideline Adjustments

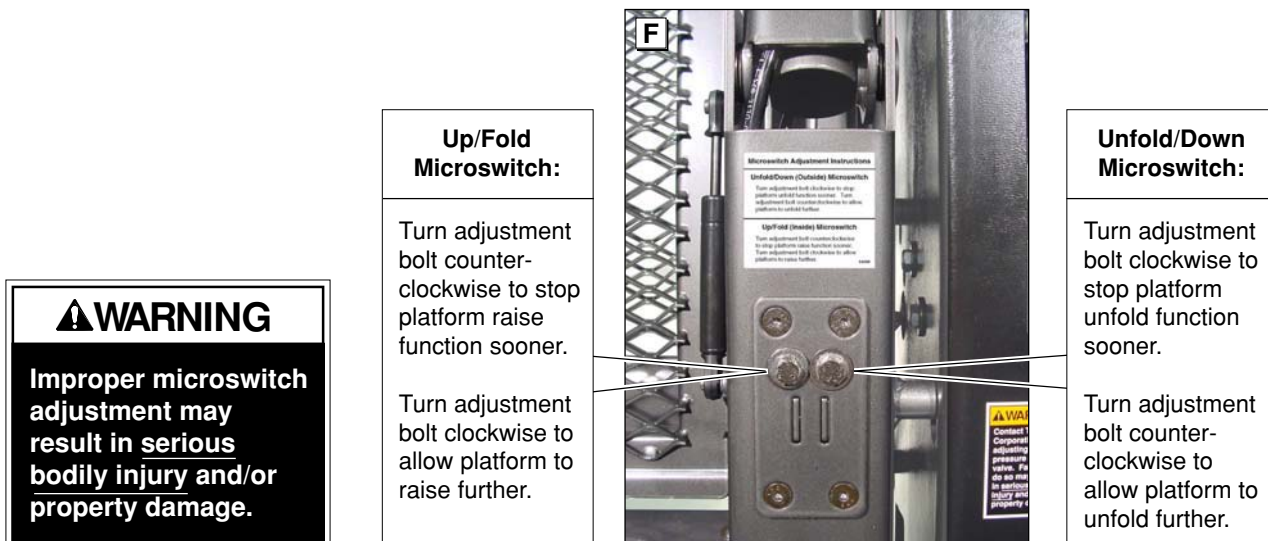


Unfold/Down and Up/Fold Microswitches: The Unfold/Down and Up/Fold microswitches (limit switches) are located in the pump side tower.

Adjustment: Use a 7/16" socket wrench to turn the two 1/4"-20 x 5" hex bolts to reposition the limit switches. Adjust these microswitches as outlined below and on Microswitch Adjustment Instructions decal 24490 (posted on tower).

Floor Level Guideline Adjustments: The Unfold/Down and Up/Fold microswitches control platform and bridge plate positioning. Ensure floor level adjustments are correct as outlined on pages 31 and 32.

Platform Angle Adjustments: Check platform angle as outlined on pages 28 and 29 when adjusting bridge plate positioning.



Floor Level Guideline Adjustments

Floor Level Guidelines for Automatic Inboard Roll Stop (IB) Lift Models:

Note: See page 32 for Floor Level Guidelines for **Fixed** Inboard Roll Stop (**Non-IB**) lift models.

When adjusting microswitches, stop block positioning and bridge plate positioning must be viewed. A combination of adjustments may be required to achieve a proper balance. Adjust Unfold/Down and Up/Fold microswitches as outlined on page 30.

Stop Blocks:

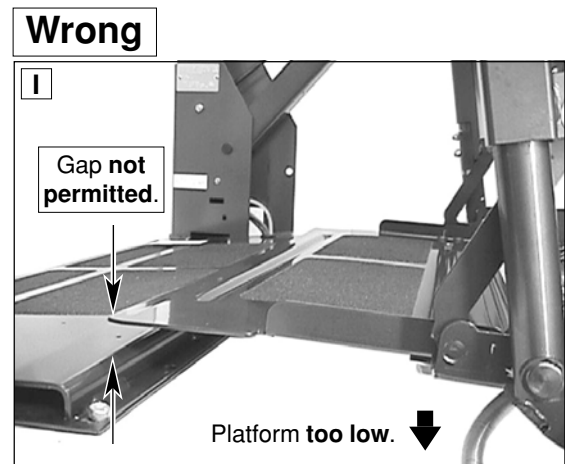
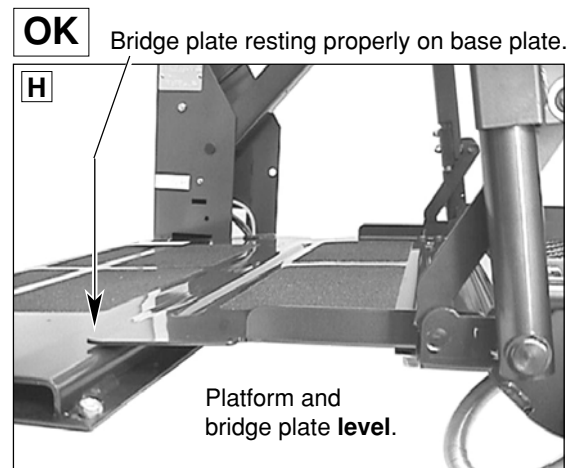
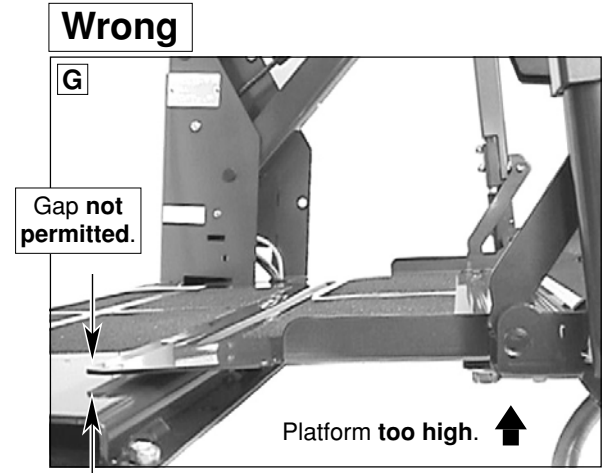
The stop blocks **must make full contact** with the inboard vertical edge of the vertical arms when the platform is at floor level (see Photo D). **Stop blocks must be properly positioned** as detailed on page 30. **Improper stop block positioning can result in lift damage.**

Bridge Plate Positioning:

Photo G shows the lift platform positioned too high. An incorrect Unfold/Down microswitch setting can prevent the platform from unfolding fully during the Unfold cycle. Or, the Up/Fold microswitch may be adjusted improperly, allowing the platform to raise above floor level during the Up cycle. The bridge plate overlaps the base plate causing a bump (uneven surface).

The bridge plate should be positioned so that the inboard edge of bridge plate rests solidly on base plate as shown in Photo H when at floor level. There should be a smooth (level) transition between the platform, bridge plate and the base plate (shown in Photo H).

Photo I depicts the platform positioned too low. An incorrect Up/Fold microswitch setting can stop the platform from reaching the fully raised position during the Up cycle. Or, the Unfold/Down microswitch may be adjusted improperly allowing the platform to unfold to a position below floor level during the Unfold cycle. The bridge plate does not make solid contact with the base plate.



Floor Level Guideline Adjustments

Floor Level Guidelines for Fixed Inboard Roll Stop (Non-IB) Lift Models:

Note: See page 31 for **Floor Level Guidelines** for **Automatic** Inboard Roll Stop (IB) lift models.

When adjusting microswitches, stop block positioning and bridge plate positioning must be viewed. A combination of adjustments may be required to achieve a proper balance. Adjust Unfold/Down and Up/Fold microswitches as outlined on page 30.

Stop Blocks:

The stop blocks **must make full contact** with the inboard vertical edge of the vertical arms when the platform is at floor level (see Photo D on page 30). **Stop blocks must be properly positioned** as detailed on page 30. **Improper stop block positioning can result in lift damage.**

Bridge Plate Positioning:

The bridge plate should be positioned so that the outboard edge of bridge plate rests solidly on the platform UHMW slides when at floor level (shown in Photo J). There should be a smooth (level) transition between the platform, bridge plate and the base plate (see Photo J).

Photo K depicts the platform positioned too low. An incorrect Up/Fold microswitch setting can stop the platform from reaching the fully raised position during the Up cycle. Or, the Unfold/Down microswitch may be adjusted improperly allowing the platform to unfold to a position below floor level during the Unfold cycle. The bridge plate does not make solid contact with the base plate.

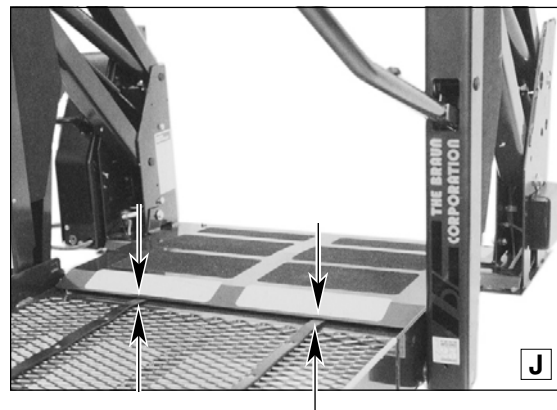
An incorrect Unfold/Down microswitch setting can prevent the platform from unfolding fully during the Unfold cycle. Or, the Up/Fold microswitch may be adjusted improperly, allowing the platform to raise above floor level during the Up cycle. The bridge plate would have an incline (uphill slope) from the platform to the base plate creating an unlevel transition between the platform, bridge plate and the base plate (photo not available).

⚠ WARNING

Improper microswitch adjustment may result in serious bodily injury and/or property damage.

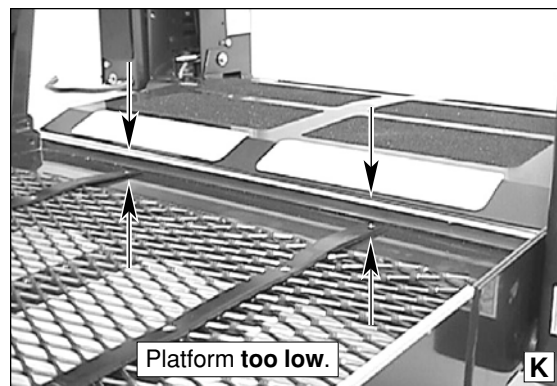
OK

Bridge plate **must be level** and **must rest fully** on UHMW slides.



Wrong

Gap not permitted.



Roll Stop Adjustment Instructions

When replacing a roll stop or roll stop hydraulic cylinder, the roll stop must be properly adjusted during installation procedures. The roll stop cylinder rod must be adjusted to properly position the roll stop. Failure to do so may result in lift damage. **Read warning posted below.**

With the lift in the stowed position (cylinder must be fully retracted), adjust the cylinder rod to achieve proper roll stop position.

Carefully loosen (back off) the 1/2" jam nut positioned below the roll stop lever adapter.

Carefully turn the cylinder rod in or out of the threaded adapter to position the roll stop as detailed below.

Caution: Grip the square head at the end of the roll stop cylinder rod (see Photo B). **Do not** grip the smooth portion of the rod. Doing so can damage the rod which can result in failure of the rod to move freely in and out of the roll stop cylinder pivot. The roll stop may not operate properly under this condition.

Roll Stop Positioning

A. Roll stop must be centered below latch-mounted rubber bumper. See Photo C.

B. Roll stop must be parallel (aligned) with end of platform side plate. See Photo C.

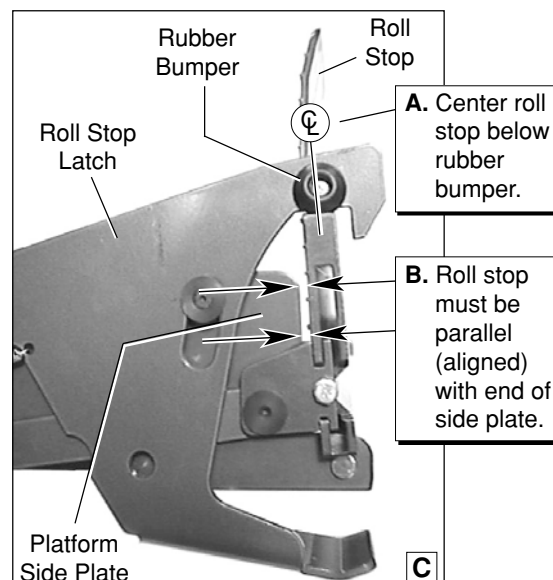
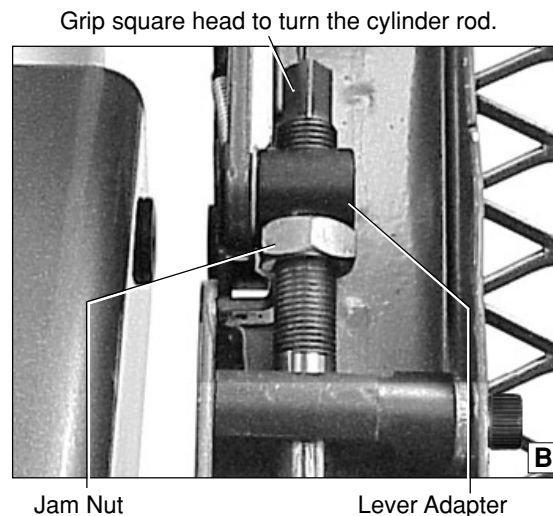
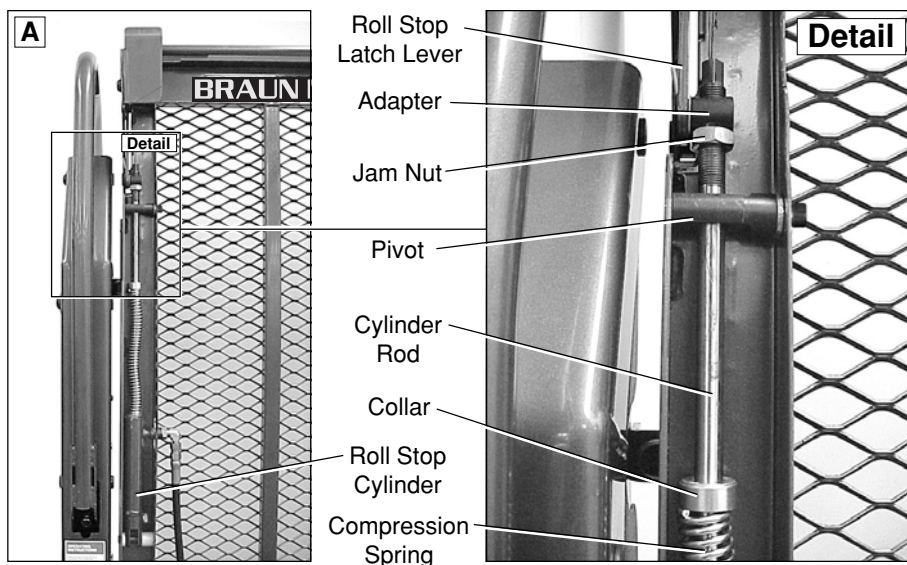
Caution: **Do not** allow the roll stop to contact the platform side plates. **Roll stop damage will occur.**

⚠ WARNING

Adjust roll stop as specified. Failure to do so may result in serious bodily injury and/or property damage.

⚠ CAUTION

Roll stop contact with platform side plates will result in roll stop damage.



Quiet-Ride Adjustment Instructions

Adjustable Quiet-Ride Guided Stop Blocks and fixed rubber bumpers mounted at key locations aid in eliminating or reducing potential rattles. Improper

installation procedures can result in potential rattles also. If lift rattles occur, review the details in this section for possible source(s) and remedies.

1. Vertical Upright Deflection:

Lift towers (vertical uprights) **must** be parallel (aligned) with the platform side plates. If the lift towers are deflected in (toward platform), or the towers move (vibrate) "side-to-side" during vehicle movement, metal-to-metal contact can occur between the parallel arm pivot pins and the platform side plates (particularly opposite-pump side).

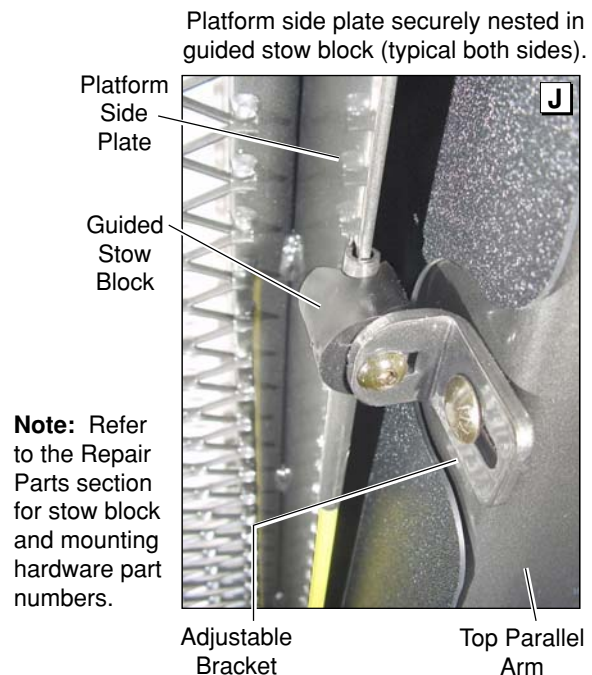
Positioning of and tightening of base plate mounting bolts substantially affects vertical upright deflection and "side-to-side" movement of towers. Tighten base plate mounting bolts as detailed in Step 2 of the Lift Installation Instructions (see page 16).

2. Quiet-Ride Guided Stow Blocks:

Quiet-Ride guided stow blocks are mounted to both top parallel arms to reduce "in-out" platform vibration. The platform side plates make contact with (nest in) the stow blocks. See Photo J at right and Photo A on page 16. The stow block mounting brackets have oval mounting slots provided for "in-out" adjustment.

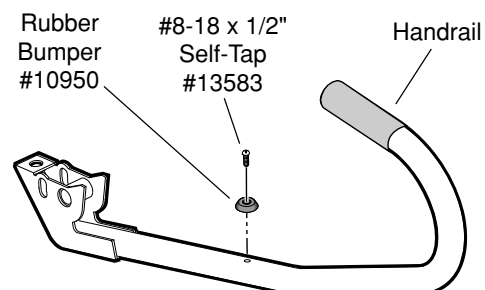
Fold the platform in fully (stowed). Grip the top of the platform and attempt to move the platform "in-and-out." The platform side plates should be making contact with (nesting in) the stow blocks so that the platform does not rock (move "in-and-out"). If the platform can be easily moved in and out, reposition the adjustable stow block bracket(s) as needed.

Mark the position of the bracket(s). Unfold the platform, loosen mounting hardware and reposition (shift) location of these brackets as needed to result in a tighter fit (positive contact) between the stop blocks and the platform side plates. **Tighten the mounting hardware securely.**



3. Handrail Rubber Bumper:

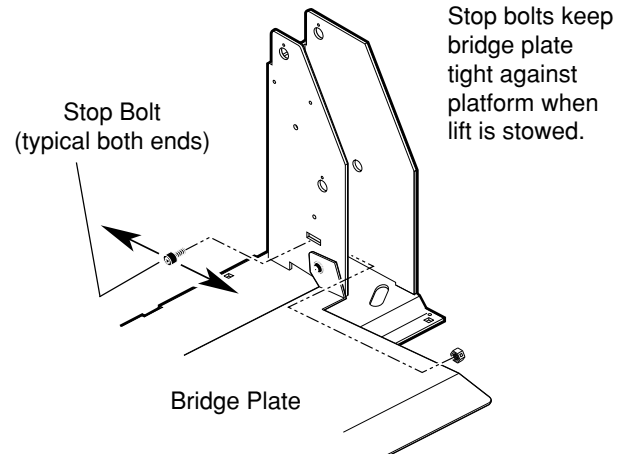
Vibration can occur between the handrails and the vertical arms. This vibration is eliminated with the rubber bumper mounted on each handrail (factory-equipped). The rubber bumper is positioned such that it contacts the vertical arm when the lift is in the fully folded (stowed) position and prevents direct metal-to-metal contact. Refer to the part numbers at the right for replacements.



Quiet-Ride Adjustment Instructions

4. Bridge Plate Stop Bolts:

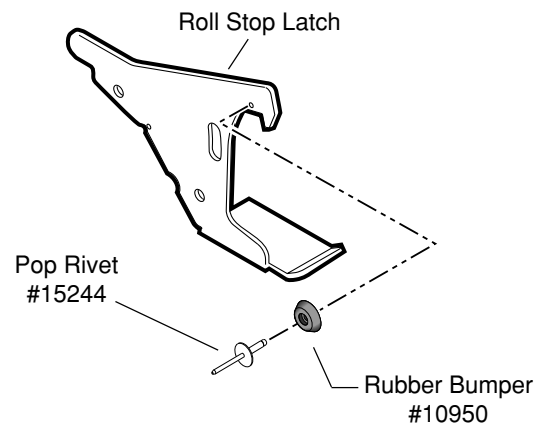
Vibration can occur between the bridge plate and the platform when the lift is in the stowed position. Stop bolts are installed in the lift towers to keep the bridge plate vertical and tight against the platform. The bolts are installed in adjustable mounting slots. It **may** be necessary to adjust the stop bolts in order to **minimize** bridge plate rattle. With lift **fully folded**, grip the edge of the bridge plate and attempt to move it “in-and-out.” If it can be easily moved, loosen and reposition the stop bolts as needed to tighten the bridge plate against the platform.



5. Roll Stop Latch Rubber Bumpers:

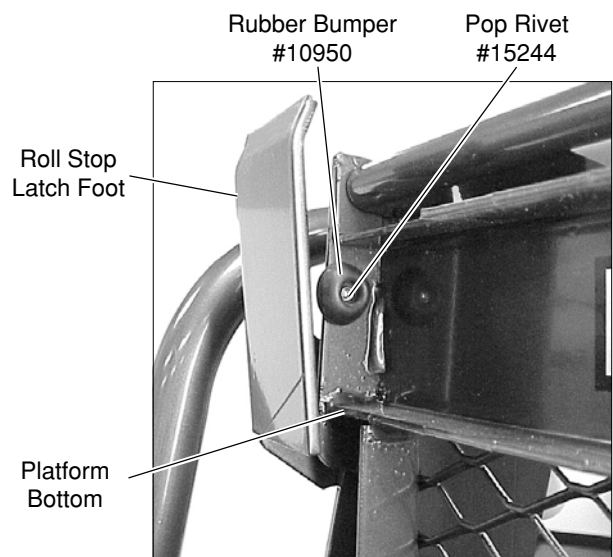
A. Roll Stop Contact

Vibration can occur between the roll stop and the roll stop latch. This vibration is eliminated with the rubber bumper mounted on the outer face of the latch (factory-equipped). The rubber bumper is positioned such that the edge of the bumper extends slightly below the latch in alignment with the roll stop. The bumper prevents direct metal-to-metal contact between the latch and the roll stop. Refer to the part numbers at the right for replacements. **Do not** position the bumper such that it prevents positive latching!

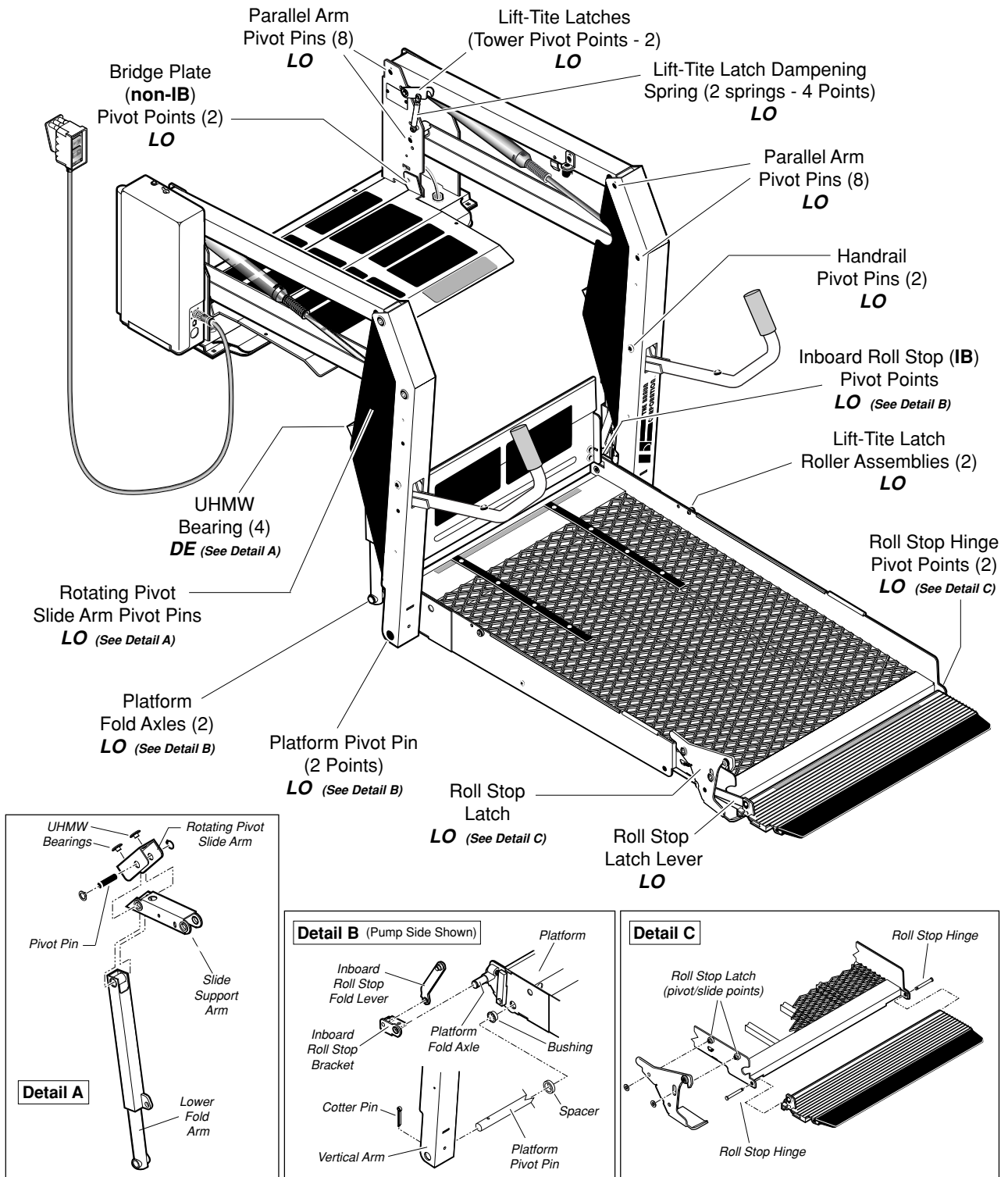


B. Platform Contact

Vibration can occur between the roll stop latch foot and the platform when the platform is stowed. This vibration is eliminated with the rubber bumper mounted on the outboard bottom edge of the platform (factory-equipped). The rubber bumper is positioned such that when it contacts the roll stop latch foot it prevents direct metal-to-metal contact. Refer to the part numbers at the right for replacements.



Lubrication Diagram and Chart



See the Maintenance/Lubrication Schedule for recommended applications per number of cycles or elapsed time.

Lubricant	Type	Specified (recommended) Lubricant	Available Amount	Braun Part No.
LO - Light Oil	Light Penetrating Oil (30 weight or equivalent)	LPS2, General Purpose Penetrating Oil	11 oz. Aerosol Can	15807
DE - Door-Ease	Stainless Stick Style (tube)	Door-Ease Stick (tube)	1.68 oz.	15806
LG - Light Grease	Light Grease (Multipurpose)	Lubriplate	14 oz. Can	15805

Maintenance and Lubrication Schedule

Proper maintenance is necessary to ensure safe, troublefree operation. Inspecting the lift for any wear, damage or other abnormal conditions should be a part of all transit agencies's daily service program. Simple inspections can detect potential problems.

The maintenance and lubrication procedures specified in this schedule **must** be performed by a Braun authorized service representative at the scheduled intervals according to the number of cycles or elapsed time, whichever comes first.

L915 Series lifts are equipped with hardened pins and self-lubricating bushings to decrease wear, provide smooth operation and extend the service life of the lift.

When servicing the lift at the consecutive recommended intervals, inspection and lubrication procedures specified in the previous sections should be performed (repeated). **Clean** the components and the surrounding area **before applying lubricants**. LPS2 General Purpose Penetrating Oil is recommended where Light Oil is called out. Use of improper lubricants can attract dirt or other contaminants which could result in wear or damage to the components. Platform components exposed to contaminants when lowered to the ground may require extra attention.

Lift components requiring grease are lubricated

during assembly procedures. When replacing these components, be sure to apply grease during installation procedures. Specified lubricants are available from The Braun Corporation (part numbers provided on page 36).

All listed inspection, lubrication and maintenance procedures should be repeated at "4 week or 400 cycle" intervals following the scheduled "1 Year or 4800 Cycles" maintenance. These intervals are a general guideline for scheduling maintenance procedures and will vary according to lift use and conditions. Lifts exposed to severe conditions (weather, environment, contamination, heavy usage, etc.) may require inspection and maintenance procedures to be performed more often than specified.

Discontinue lift use immediately if maintenance and lubrication procedures are not properly performed, or if there is any sign of wear, damage or improper operation. Contact your sales representative or call The Braun Corporation at 1-800-THE LIFT. One of our national Product Support representatives will direct you to an authorized service technician who will inspect your lift.

⚠ WARNING

Maintenance and lubrication procedures must be performed as specified by an authorized service technician. Failure to do so may result in serious bodily injury and/or property damage.

Note: Disregard references to components not present.

4 Weeks or 400 Cycles	Outboard roll stop hinge pivot points (2)	Apply Light Oil - See Lubrication Diagram
	Roll stop latch (pivot/slide points)	Apply Light Oil - See Lubrication Diagram
	Roll stop latch lever pivot points	Apply Light Oil - See Lubrication Diagram
	Lift-Tite™ latches (tower pivot points - 2)	Apply Light Oil - See Lubrication Diagram
	Lift-Tite™ latch gas (dampening) spring pivot points (2 springs - 4 points)	Apply Light Oil - See Lubrication Diagram
	Inspect Lift-Tite™ latches and gas springs for wear or damage (bent, deformed or misaligned), positive securement (external snap rings) and proper operation	Resecure, replace defective parts or otherwise correct as needed. Note: Apply Light Grease to Lift-Tite™ latch tower pivot point if replacing latch.
	Inspect outboard roll stop for proper operation	Correct or replace defective parts.
continued	Inspect outboard roll stop latch for proper operation, positive securement, and detached or missing spring	Correct or replace defective parts and/or relubricate. See Lubrication Diagram

Maintenance and Lubrication Schedule

<div>continued</div> <div>4 Weeks or 400 Cycles</div>	Inspect lift for wear, damage or any abnormal condition	Correct as needed.
	Inspect lift for rattles	Adjust as needed. See Quiet-Ride® Adjustment Instructions on pages 34 and 35.
<div>3 Months or 1200 Cycles</div> <div>continued</div>	<div>Perform all procedures listed in previous section also</div>	
	Platform pivot pin bearings (2)	Apply Light Oil - See Lubrication Diagram
	Platform fold axles (2)	Apply Light Oil - See Lubrication Diagram
	Inboard roll stop (IB) lever bearings (2)	Apply Light Oil - See Lubrication Diagram
	Inboard barrier lever slot (2)	Apply Light Oil - See Lubrication Diagram
	Bridge plate (non-IB) pivot points (2)	Apply Light Oil - See Lubrication Diagram
	Rotating pivot slide arm pivot pins (2)	Apply Light Oil - See Lubrication Diagram
	Parallel arm pivot bearings (16)	Apply Light Oil - See Lubrication Diagram
	Handrail pivot pin bearings (4)	Apply Light Oil - See Lubrication Diagram
	Hydraulic cylinder bushings (8)	Apply Light Oil - See Lubrication Diagram
	Inspect Lift-Tite™ latch catch rollers (2) for wear or damage, positive securement and proper operation	Correct, replace defective parts and/or relubricate.
	Inspect inboard roll stop (IB) for: <ul style="list-style-type: none"> • Wear or damage • Proper operation. Rollstop should just rest on top surface of the base plate. • Positive securement (both ends) 	Resecure, replace or correct as needed. See Platform Angle Instructions and Roll Stop Adjustment Instructions.
	Inspect handrail components for wear or damage, and for proper operation	Replace defective parts.
	Inspect bridge plate (non-IB) for proper operation and positive securement (pivot bolts)	Correct or replace defective parts and/or relubricate. See Lubrication Diagram
	Check adjustment of platform sensor (fold) switch (pump-mounted hydraulic pressure switch)	Adjust or replace as needed. See Systems Descriptions for details and procedures.
	Inspect microswitches for securement and proper adjustment.	Resecure, replace or adjust as needed. See Systems Descriptions for Microswitches.
	Make sure lift operates smoothly	Realign upright supports. Lubricate or correct as needed.
	Inspect external snap rings: <ul style="list-style-type: none"> • Handrail pivot pins (2 per pin) • Platform slide/rotate pivot pins (2 per pin IB) (1 per pin non-IB) • Platform fold axles (1 per axle) • Inboard roll stop (IB) lever bracket pins (1 per pin) • Lift-Tite™ latch gas (dampening) spring (2 per spring) 	Resecure or replace if needed.
	Inspect platform fold axles and bearings for wear or damage and positive securement	Replace defective parts and resecure as needed. Apply Light Oil.

Maintenance and Lubrication Schedule

<div>continued</div> <div>3 Months or 1200 Cycles</div>	<div>Remove pump module cover and inspect: • Hydraulic hoses, fittings and connections for wear or leaks • Harness cables, wires, terminals and connections for securement or damage • Circuit breaker and solenoids for securement or damage</div> <div>Resecure, replace or correct as needed.</div>
<div>1 Year or 4800 Cycles</div>	<div>Perform all procedures listed in previous sections also</div> <div> <div>Inspect cotter pins on platform pivot pin (2)</div> <div>Resecure, replace or correct as needed</div> </div> <div> <div>Hydraulic Fluid (Pump) - Check level. Note: Fluid should be changed if there is visible contamination. Inspect the hydraulic system (cylinder, hoses, fittings, seals, etc.) for leaks if fluid level is low.</div> <div>Use Dextron III transmission fluid. Check fluid level with platform lowered fully and roll stop unfolded fully. Fill to within 1/2" of the bottom of the 1-1/2" fill tube (neck).</div> </div> <div> <div>Inspect cylinders, fittings and hydraulic connections for wear, damage or leaks</div> <div>Tighten, repair or replace if needed.</div> </div> <div> <div>Inspect roll stop cylinder hose assembly (hose, fasteners, connections, etc.) for wear, damage or leakage</div> <div>Tighten, repair or replace if needed.</div> </div> <div> <div>Inspect parallel arms, bushings and pivot pins for visible wear or damage</div> <div>Replace if needed.</div> </div> <div> <div>Inspect parallel arm pivot pin mounting bolts (8)</div> <div>Tighten or replace if needed.</div> </div> <div> <div>Inspect platform pivot pin, bushings and vertical arms for wear, damage and positive securement</div> <div>Replace defective parts and resecure as needed. Apply Light Grease during reassembly procedures.</div> </div> <div> <div>Inspect upper/lower fold arms, rotating pivot slide arms, slide support arms and associated pivot pins, bushings, and bearings for visible wear or damage</div> <div>Replace if needed.</div> </div> <div> <div>Inspect platform pivot arms for detached, worn or missing unfold springs (non-IB)</div> <div>Correct or replace</div> </div> <div> <div>Inspect gas springs (cylinders) for wear or damage, proper operation and positive securement (IB)</div> <div>Tighten, replace or correct as needed</div> </div> <div> <div>Inspect rotating pivot slide arm UHMW slide bearings (buttons)</div> <div>Apply Door-Ease or replace if needed. See Lubrication Diagram.</div> </div> <div> <div>Inspect vertical arm plastic covers</div> <div>Resecure or replace if needed.</div> </div> <div> <div>Inspect power cable</div> <div>Resecure, repair or replace if needed.</div> </div> <div> <div>Mounting</div> <div>Check to see that the lift is securely anchored to the vehicle and there are no loose bolts, broken welds, or stress fractures.</div> </div> <div> <div>Decals and Antiskid</div> <div>Replace decals if worn, missing or illegible. Replace antiskid if worn or missing. See Decals and Antiskid section on pages 74-77.</div> </div>
<div>Consecutive 4 Week or 400 Cycle Intervals</div>	<div>Repeat all previously listed inspection, lubrication and maintenance procedures at 4 week or 400 cycle intervals.</div>

Systems Descriptions

General Operation

Braun L915 Fully Automatic lifts are powered by an electric/hydraulic system operating two single-acting hydraulic **main cylinders** for power up/fold and gravity unfold/down operation. This combination reduces battery drain and helps prevent lift alignment problems.

The hydraulic system supplies hydraulic fluid to and from the cylinders which unfold, lower, raise and fold the platform. The hydraulic system operates an additional single-acting hydraulic **roll stop cylinder** which folds (raises) the outboard roll stop to the vertical position. A compression spring unfolds (lowers) the roll stop to the horizontal (ramp) position.

Automatic Floor Level Switching: L915 Series lifts feature automatic floor level switching. This feature eliminates the need for the lift operator to position and stop the platform at vehicle floor level when unfolding the platform from the stowed position and when raising the platform from ground level.

Pressing the UNFOLD switch unfolds the platform from the stowed position to floor level. The platform stops automatically at floor level when fully unfolded. Pressing the UP switch raises the platform from the ground level to floor level. When raising the platform from ground level, the platform automatically stops at floor level when raised fully.

The automatic floor level switching is controlled by two independently adjustable microswitches (limit switches). See page 30.

Read warning at right! If the lift platform does not automatically stop at floor level as outlined, **discontinue lift operation immediately.** Contact your lift sales representative or call The Braun Corporation at 1-800-THE LIFT.

Bridging: The L915 electric/hydraulic system incorporates a bridging feature. This feature stops the down travel of the platform if the outboard end of the platform contacts a raised surface (such as a curb), preventing the

operator from lowering the inboard end of the platform resulting in an unsafe platform angle.

WARNING

Maintenance and repair procedures must be performed as specified by authorized service personnel only. Failure to do so may result in serious bodily injury and/or property damage.

WARNING

Discontinue lift use if platform does not stop automatically at floor level. Failure to do so may result in serious bodily injury and/or property damage.

Electrical

Power Source: The lift draws its power from a 12 volt DC battery (standard models). Special applications are powered by a 24 volt system.

Ground: The lift electrical system **must be grounded** to the vehicle frame for proper operation. See the **Lift Ground** on pages 18 and 19 of this manual.

Pump Motor: Motor brushes are **not replaceable**. The pump motor must be replaced if the brushes become worn.

Relay: A relay is an electrically operated electromagnetic switch that uses a small current to control a much larger current. The L915 electrical system incorporates the use of one relay (Bridging Relay).

Circuit Sentry: This manual reset circuit breaker protects the system from overloads. The Circuit Sentry is located as close to the battery as possible for maximum protection. In event of failure, wait 60 seconds, then turn the RESET lever to reset the breaker.

Systems Descriptions

Power/Interlock Indicator Light: A green indicator light is built into the pump module that illuminates when remote interlock(s) are made (circuit complete) and there is power to the lift. Both conditions must be met. The light will shut off if either condition is not met (lift functions are disabled also). An illuminated light indicates the lift is operational.



5 Ampere Circuit Breaker: This circuit breaker is a single pole, manual reset, thermally-operated circuit protection device rated at 5 amperes that protects a circuit from being overloaded beyond the safe current carrying capacity of the circuit. When the breaker heats up to a certain temperature, it interrupts the source of current. When the cause of the overload is corrected and the breaker cools back down, it may be reset to provide current.

External Electrical “Up/Fold” Solenoid: When the platform is below floor level, pressing the UP switch energizes this solenoid. The solenoid directs current to the pump motor which powers the hydraulic pump to raise the platform. The Up/Fold microswitch is activated when the platform reaches floor level. This interrupts the UP control switch circuit which de-energizes the solenoid and removes current to the pump motor and stops the platform. Releasing the UP switch will also de-energize the solenoid removing current to the pump motor and stopping the raising function.

Pressing the FOLD switch then energizes the Up/Fold solenoid through the fold circuit. The solenoid in turn directs current to the pump motor to fold the platform. Releasing the FOLD switch de-energizes the solenoid removing current to the pump motor and stopping the folding function.

Note: When the platform reaches the stowed (fully folded) position, the Hydraulic Platform Sensor Pressure Switch is activated (pre-set pressure reached). The activated pressure switch shuts the

pump motor off also. See page 45 for further details.

M268 Solenoid/Hydraulic Valves: Series **07** L915 lift models are equipped with the M268 hydraulic pump (further details in Hydraulic section). The M268 features pump-mounted **Unfold, Bridging** and **Down** solenoid/hydraulic valves (details follow).

When the platform is in the stowed (fully folded) position, pressing the UNFOLD switch energizes all three solenoid/valves. When the platform reaches floor level, the solenoid/valves are de-energized by the Unfold/Down microswitch circuit. Releasing the UNFOLD switch also de-energizes the solenoid/valves.

The Bridging and Down solenoid/hydraulic valves are also energized while the DOWN switch is pressed when the platform is fully unfolded. Both solenoid/valves will remain energized until the DOWN switch is released.

Note: The Bridging solenoid/hydraulic valve will remain energized until the DOWN switch is released **or** the Bridging microswitch is deactivated. Deactivation of the Bridging microswitch stops the down travel of the platform while allowing the roll stop to deploy.

Troubleshooting: A problem with the solenoid/valves can be electrical or hydraulic. Follow the **Quick-Check** troubleshooting procedure when troubleshooting (outlined on following page).

Systems Descriptions

Electrical (continued)

Quick-Check:

Read warning posted at right!

Remove all rings, watches, etc. prior to doing any electrical work near the pump motor.

With the lift stowed, hold a paper clip (or other magnetically attracted object) near the center threaded post on the solenoid/valve while pressing the UNFOLD switch (**stand clear of platform**). If the solenoid post does not magnetically attract the paper clip, there is an electrical problem. If attracted, there is a hydraulic problem.

Note: If this solenoid post is bent at all, the hydraulic valve will not operate.

⚠ WARNING



Risk of electrical shock! Use extra care when making electrical connections or performing electrical tests.

Microswitches: Three microswitches (limit switches) are incorporated in the L915 electrical system (Unfold/Down, Up/Fold and Bridging microswitches). Details and photos of all microswitches are provided in this section. Adjust microswitch(es) as detailed (**if necessary only**).

Microswitch Sequence:

Stowed Position: When the lift is in the stowed position, the Up/Fold and Unfold/Down microswitches are activated (common and normally open terminals have continuity).

Unfold (Out) and Lowering Sequence: When the lift is in the stowed position, the Unfold/Down microswitch is activated. This provides current to the UNFOLD (Out) switch circuit to energize the Unfold, Bridging and Down solenoid/valves to unfold the platform. While the Unfold/Down microswitch is activated, the

DOWN switch circuit is interrupted. When the platform unfolds fully (reaches floor level), the Unfold/Down microswitch is deactivated (at rest). Deactivating this microswitch interrupts the UNFOLD (Out) switch circuit and redirects current to the DOWN switch circuit to re-energize the Bridging and Down solenoid/valves when the DOWN switch is pressed.

Bridging Sequence: When the platform unfolds fully (reaches floor level), the Bridging microswitch is activated. The Bridging microswitch will be deactivated if the outboard end of the platform contacts the unloading surface before the inboard end while the DOWN switch is pressed. The inboard end of the platform may not contact the unloading surface at all in such cases as a curb or uneven ground. The deactivated Bridging microswitch interrupts power to the DOWN switch circuit and

stops the down travel of the platform (while allowing the roll stop to deploy). This prevents the operator from lowering the inboard end of the platform resulting in an unsafe platform angle.

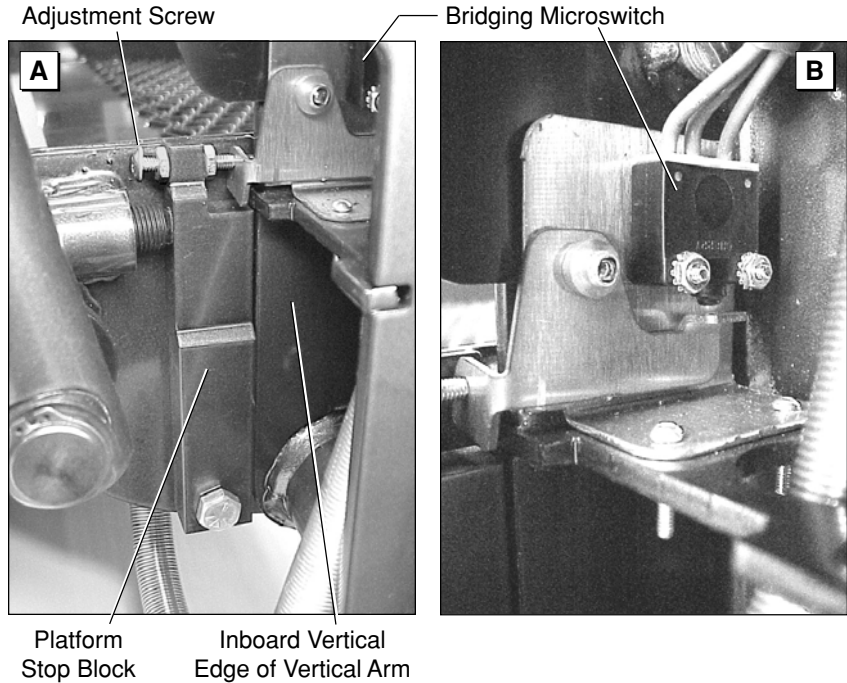
Raise and Fold (In) Sequence: When the platform is below floor level, the Up/Fold microswitch is deactivated (at rest). This directs current to the UP switch circuit to energize the Up/Fold solenoid to direct current to the pump motor when the UP switch is pressed. The FOLD (In) switch circuit is interrupted when the platform is below floor level. The Up/Fold microswitch is activated when the platform reaches floor level. This interrupts the UP switch circuit and redirects current to the Fold (In) switch circuit when the FOLD switch is pressed. This re-energizes the Up/Fold solenoid and directs current to the pump motor.

Systems Descriptions

Bridging Microswitch: The bridging microswitch is located at the bottom of the left (rear) vertical arm. See Photos A and B. An adjustment screw is built into the platform stop block.

The bridging microswitch will be deactivated if the outboard end of the platform contacts the unloading surface before the inboard end while the DOWN switch is pressed.

The deactivated bridging microswitch interrupts power to the DOWN switch circuit and stops the down travel of the platform (while allowing the roll stop to deploy).



Unfold/Down and Up/Fold Microswitches: The Unfold/Down and Up/Fold microswitches (limit switches) are located in the pump side tower.

Adjustment: Use a 7/16" socket wrench to turn the two 1/4"-20 x 5" hex bolts to reposition the limit switches. Adjust these microswitches as outlined below and on Microswitch Adjustment Instructions decal 24490 (posted on tower).

Floor Level Guideline Adjustments: The Unfold/Down and Up/Fold microswitches control platform and bridge plate positioning. Ensure floor level adjustments are correct as outlined on pages 30-32. Check platform angle as outlined on pages 28 and 29 when adjusting bridge plate positioning.


⚠ WARNING

Improper microswitch adjustment may result in serious bodily injury and/or property damage.

Up/Fold Microswitch:

Turn adjustment bolt counter-clockwise to stop platform raise function sooner.

Turn adjustment bolt clockwise to allow platform to raise further.



Unfold/Down Microswitch:

Turn adjustment bolt clockwise to stop platform unfold function sooner.

Turn adjustment bolt counter-clockwise to allow platform to unfold further.

Systems Descriptions

Hydraulics

M268 Hydraulic Pump: Fixed displacement external gear type hydraulic pump with 12 VDC electric motor and 76 cubic inch fluid reservoir. The pressure relief valve is factory set at 2100 psi.

Note: 24 volt pumps are available for special applications. See the Serial No./Series No. Identification tag for the applicable pump code. **Pump**

Modules: Pump modules are available as a complete quick-service repair unit. See the Pump Module sections for detailed breakdowns on pages 62 through 65.

Hydraulic Fluid: Use Dextron III automatic transmission fluid. Make sure the **platform is fully lowered and roll stop is fully unfolded** when checking fluid level or adding fluid. Fill to within 1/2" of the bottom of the 1-1/2" diameter fill tube (neck). The maximum fluid level is designated on the pump reservoir with decal 26735. **DO NOT** use a solid plug or fill cap without a breather hole. Doing so will result in pump and/or reservoir damage.

Contamination: Fluid should be changed if there is visible contamination. Inspect the hydraulic system (cylinder, hoses, fittings, seals, etc.) for leaks if fluid level is low.

Cold Weather Applications: The oil can be thinned with two (2) tablespoons of diesel fuel. The oil should be changed when warm weather returns. **Note:** We recommend SAE 10 W non-detergent oil mixed by volume with no more than 30% #1 fuel oil or kerosene for full time cold weather applications.

Pump-Mounted Electrical "Unfold" Solenoid/Hydraulic Valve: When the platform is in the stowed (fully folded) position, pressing and holding the UNFOLD switch circuit energizes this solenoid/valve (the Bridging and Down Solenoid/Valves are energized also). When energized, it directs the flow of hydraulic fluid to the internal manifold orifice (flow is through internal manifold pressure compensator during the de-energized status). The manifold orifice meters a limited rate of hydraulic fluid flow from the lift cylinders during the unfold cycle to reduce the rate of the platform deployment.

When the platform unfolds fully (reaches floor level), the Unfold/Down microswitch is deactivated (at rest). Deactivating this microswitch interrupts the UNFOLD (Out) switch circuit and redirects current to the DOWN switch circuit to re-energize the Bridging and Down

solenoid/valves when the DOWN switch is pressed.

Troubleshooting: A problem with this solenoid/valve can be electrical or hydraulic. Follow the **Quick-Check** troubleshooting procedure detailed in the Solenoid/Hydraulic Valve section on page 42 when troubleshooting.

Pump-Mounted Electrical "Bridging" Solenoid/Hydraulic Valve: When the platform is in the stowed (fully folded) position, pressing the UNFOLD switch energizes this solenoid/valve. When the platform reaches floor level, the Bridging solenoid/valve is de-energized by the Unfold/Down microswitch circuit. Releasing the UNFOLD switch also de-energizes this solenoid/valve.

This solenoid/valve is also energized while the DOWN switch is pressed (when the platform is fully unfolded). It will remain energized until the DOWN switch is released or the bridging microswitch is deactivated. If the bridging microswitch is deactivated, the bridging solenoid/valve is de-energized which prevents fluid from flowing from the lifting hydraulic cylinders to the reservoir and stops the lowering of the platform (while allowing oil flow from the roll stop cylinder - roll stop deploys).

Troubleshooting: A problem with this solenoid/valve can be electrical or hydraulic. Follow the **Quick-Check** troubleshooting procedure detailed in the Solenoid/Hydraulic Valve section on page 42 when troubleshooting.

Pump-Mounted Electrical "Down" Solenoid/Hydraulic Valve: The UNFOLD switch circuit energizes this solenoid/valve which allows hydraulic fluid to return from the cylinders to the reservoir at a limited rate, thus allowing gravity to unfold the platform. Fluid flows through the internal manifold valve and orifice **before** reaching the Down valve. The Unfold/Down microswitch is deactivated (at rest) when the platform unfolds fully (reaches floor level), which interrupts the UNFOLD switch circuit, thereby de-energizing the solenoid/valves. Releasing the UNFOLD switch de-energizes this valve also. This stops and holds the platform at the current position by stopping the flow of hydraulic fluid from the cylinders to the reservoir.

When the platform unfolds fully to floor level and the Unfold/Down microswitch is deactivated (at rest),

Systems Descriptions

pressing the DOWN switch then energizes this solenoid/valve. The manifold Unfold solenoid/valve is de-energized, which routes the hydraulic fluid through the manifold internal pressure compensator valve before allowing it to return to the reservoir from the cylinders, thus allowing gravity to lower the platform at a reduced rate. The manifold internal pressure compensator valve allows a limited rate of hydraulic fluid flow

dependent upon platform load.

Releasing the DOWN switch de-energizes the solenoid/valve allowing it to close, stopping the flow from the cylinders to reservoir. This stops and holds the platform at the current position.

If the Bridging microswitch has been deactivated while the Down switch is being pressed, only the Down solenoid/valve remains energized. This allows the

hydraulic fluid to flow only from the roll stop cylinder to the reservoir once the roll stop latch releases the roll stop (allowing the roll stop to deploy).

Troubleshooting: A problem with this solenoid/valve can be electrical or hydraulic. Follow the **Quick-Check** troubleshooting procedure detailed in the Solenoid/Hydraulic Valve section on page 42 when troubleshooting.

Hydraulic Platform Sensor

Pressure Switch: L915 lift models are equipped with a hydraulic platform sensor pressure switch. The hydraulic pressure switch senses weight on the platform and prohibits the platform from folding when a passenger is on the platform.

⚠ WARNING

Improper hydraulic pressure switch adjustment may result in serious bodily injury and/or property damage.

The platform sensor pressure switch is mounted to the hydraulic pump. This switch is activated when weight is on the platform. This opens the circuit and prevents the platform from folding if the FOLD (In) switch is pressed. When there is no load on the platform, the platform sensor pressure switch completes the circuit and allows the platform to be folded when the FOLD (In) switch is pressed.

Note: The pressure switch is also activated when the platform folds to the stowed position (shuts pump motor off).

Hydraulic Pressure Switch 3/32" Hex Drive Adjustment Screw



When to Adjust the Platform Sensor Pressure Switch:

Hydraulic platform sensor pressure switches are factory set and should require no adjustment (under normal conditions). The conditions listed at right indicate the need to adjust the pressure switch. Refer to the switch adjustment instructions provided.

1. Empty platform will not fold or there is excessive intermittent pump operation during the fold cycle.
2. Pressure switch replacement.
3. Mechanical adjustment to and/or replacement of lift components that may affect the amount of hydraulic force required to fold the platform.

Pressure Switch Adjustment Instructions:

1. Unfold and lower the platform to the ground. Place a 75 pound load in the center of the platform and raise the platform to floor level.
2. Press the IN (Fold) switch. If the pump shuts off and the platform does not fold, proceed to Step 3. If the platform starts to fold and the pump does not shut off, or skips (cycles on and off), proceed to Step 4.
3. Although the pump shut off and the platform did not fold, you must ensure that the pressure switch is set correctly so there is no hesitation when folding an empty platform. Using a 3/32" hex

Systems Descriptions

drive, turn the adjustment screw clockwise 1/16 to 1/8 turn at a time. **Note:** Press the OUT (Unfold) switch to return the platform to floor level before each adjustment. Press the IN (Fold) switch to test operation following each adjustment. Repeat until the pump starts cycling on and off, folding the platform.

Return the platform to floor level, reposition (center) the weight and turn the adjustment screw counterclockwise 1/16 to 1/8 intervals until the weight shuts the pump off. Proceed to Step 5.

4. The pump did not shut off or skipped (cycled on and off). The pressure switch must be adjusted to

a positive shutoff with the 75 pound load. Return the platform to floor level and reposition (center) the weight. Using a 3/32" hex drive, turn the adjustment screw counterclockwise 1/16 to 1/8 intervals until the weight shuts the pump off.

Note: Press the OUT (Unfold) switch to return the platform to floor level before each adjustment. Press the IN (Fold) switch to test operation following each adjustment. Proceed to Step 5.

5. Test the Fold function with an empty platform. The platform should fold without any hesitation or "skipping." If it does hesitate, inspect and lubricate the lift pivot points. Excessive friction at the pivot points can cause hesitation when folding.

Cylinder-Mounted Flow Control Valves (pressure compensators):

L915 Series lift models are equipped with two external flow control valves (one for each lift main cylinder). This device is sized to allow unre-

stricted hydraulic fluid to flow in and out of the lift cylinders during normal operation. The valve meters a limited rate of oil flow from the lift cylinders in the event there is an external hydraulic fluid leak between the

cylinders and the pump, (preventing rapid platform descent). This is a nonadjustable fixed valve. The arrow on the valve points toward the pump (hex nut toward the cylinder).

WARNING

Contact The Braun Corporation before adjusting hydraulic pressure relief valve. Failure to do so may result in serious bodily injury and/or property damage.

Pressure Relief Valve: This adjustment on the pump unit limits the maximum oil pressure in the system to a safe level. It also keeps the amp draw and battery drain at a minimum when the cylinders reach full stroke. The M268 pressure relief valve is preset at 2100 psi. **Do not**

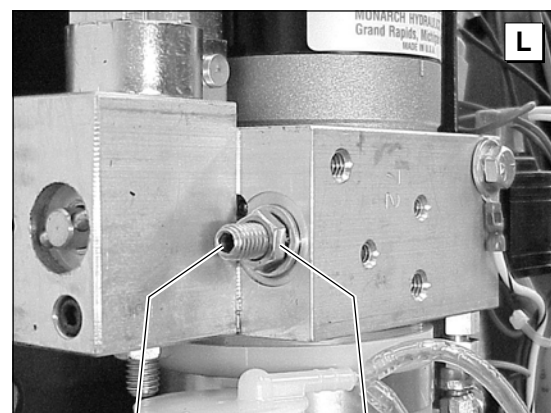
tamper with this adjustment unless absolutely necessary (will not lift load) and then, **only** after contacting The Braun Corporation.

Relief Valve Access: The pump module cover must be removed to access the relief valve (access hole not provided).

Relief Valve Adjustment Procedure:

1. Position a 9/16" wrench onto the hex nut retaining the Allen screw. Insert a 3/16" Allen wrench into the Allen screw. Secure the Allen screw and loosen the hex nut. **Do not** remove nut or Allen screw.
2. Place load on platform (equal to weight not lifting).
3. Hold the hex nut and turn the Allen screw clockwise until pump lifts the load. Turn the Allen screw in an additional 3/4 turn, then unscrew it 1/4 turn. This action ensures that relief valve protection has not been adjusted out of the system.
4. Secure the Allen head screw and tighten the hex nut retainer (locking nut) **securely**.

Relief Valve (Pump Cover Removed)



Allen Screw

Hex Nut

Systems Descriptions

Manual Backup Pump: The manual hydraulic backup pump system is used to unfold, lower, raise and fold the platform in the event of electrical failure. See the lift posted Manual Operating Instructions Decal for operating procedures. See the Hydraulic Diagrams and Parts Listings for parts and connections.

Troubleshooting: Failure to raise or fold a platform and platform drift (failure to hold the platform in a raised or folded position) can simply be the result of the backup pump release valve not being closed tightly. Platform drift can also be the result of a loss of pump prime or contamination around the ball within the release valve seat. First, check to see that the valve stem is closed tight. If this does not solve the problem, proceed with the Priming and Flushing Procedure - outlined at right.

Priming and Flushing Procedure:

- a. **Lower platform fully.**
- b. Press the UP switch while simultaneously opening the backup pump release valve (turn stem counter-clockwise) until the platform **does not** raise.
- c. Close the release valve securely (turn clockwise) and check the backup pump operation by inserting the pump handle and stroking.

WARNING

Lower platform fully before priming or flushing backup pump release valve. Failure to do so may result in serious bodily injury and/or property damage.

Cylinders: It is advisable to replace a cylinder rather than try to repair it, although seal kits are available. Minute scratches and nicks need to be repaired with proper equipment. Failure to do so will cause premature failure of new seals.

WARNING

Replace cylinder if tests indicate failure. Failure to do so may result in serious bodily injury and/or property damage.

Troubleshooting: Replacement of the cylinder(s) is unnecessary unless platform drift (failure to hold the platform in a raised or folded position) occurs or a loaded platform fails to raise.

The cylinder should be replaced if **any** external leakage from the rod seals is visible. The cylinder should also be replaced if there is **any** internal leakage from the piston seals. Even the slightest amount of drift could result in a potentially hazardous situation. The following procedures will indicate internal leakage.

WARNING

Whenever replacing a hydraulic cylinder or seals and/or testing for oil leakage, lower platform fully. Failure to do so may result in serious bodily injury and/or property damage.

Internal Leakage Test No. 1:

- a. Place load (200 to 250 lbs.) on platform.
- b. Raise loaded platform fully (floor level).
- c. If a **continuous flow** of oil from a cylinder (piston end) is visible in the return line during the retract mode, replace the cylinder. Remove reservoir cap to look for **continuous flow** of oil.

Note: Movement of a slight amount of seal lubrication oil or air bubbles in the return line is normal.

Note: If oil leakage is not visible when conducting Internal Leakage Test No. 1, but the platform drifts (**any** measurable descent whatsoever), perform Internal Leakage Test No. 2.

Internal Leakage Test No. 2:

- a. Place load (200 to 250 lbs.) on platform.
- b. Raise loaded platform fully (floor level).
- c. Allow the loaded platform to set in the raised position overnight or longer.
- d. If **any** measurable descent is visible, refer to Section 9.40 of the Troubleshooting Diagnosis Chart for remedies.

Troubleshooting Diagnosis Chart

⚠ WARNING

Troubleshooting and repair procedures must be performed as specified by an authorized service technician only. Failure to do so may result in serious bodily injury and/or property damage.

If a problem occurs with your lift, **discontinue operation immediately! Do not** attempt repairs yourself. Contact your sales representative or call The Braun Corporation at 1-800-THE LIFT. One of our national Product Support representatives will direct you to an authorized service technician who will inspect your lift.

The cause of the problem can be determined by locating the lift function and related symptom in

the Troubleshooting Diagnosis Charts. The specific cause and remedy can then be determined by process of elimination. A Wiring Diagram, Electrical Schematic, Hydraulic Diagram and Hydraulic Schematic are provided to aid in troubleshooting.

A Repair Parts section with exploded views and corresponding parts lists is also provided. Correct the problem if possible. If the problem continues, contact The Braun Corporation.

FUNCTION	SYMPTOM	POSSIBLE CAUSE	REMEDY
1.00 NO OPERATION	1.10 No Power To Lift (Circuit Problem)	1.11 Circuit Sentry (Main circuit breaker located near battery) tripped. 1.12 Battery terminals dirty 1.13 Chassis ground connection (frame ground cables) 1.14 Battery defective 1.15 Battery discharged 1.16 Circuit Sentry defective 1.17 Power cable 1.18 Interlock (optional) circuit incomplete	Fix overload and reset-turn RESET lever Clean and tighten Clean and tighten. See Lift Ground on pages 18 and 19. Replace Charge battery Replace Check for loose terminals or broken wire Correct or replace
	1.20 Power to Lift But No Operation (Switches)	1.21 Lift-mounted circuit breaker tripped or defective 1.22 Loose connection 1.23 Broken wire 1.24 Wire terminal 1.25 Solenoid defective 1.26 Switch defective	Reset or replace Clean and tighten Repair Crimp tightly to wire Replace Replace
2.00 PLATFORM UNFOLD (Out)	2.10 No Operation	2.11 See 1.00 2.12 Lift platform has drifted against Lift-Tite™ latches 2.13 Unfold/Down Microswitch out of adjustment or defective 2.14 Unfold/Down Microswitch harness disconnected, damaged or otherwise defective 2.15 Cylinder flow control valve(s) defective 2.16 Internal flow control valve(s) defective 2.17 Unfold, Bridging and/or Down solenoid/valves: Poor connection, bent shaft or contaminated filter	Press Fold switch until lift is fully folded, then unfold platform. Adjust or replace. See <i>Microswitches in Systems Descriptions for details (pages 42 and 43)</i> Connect, repair or replace Replace Replace pump Check for loose connection or replace. See <i>Systems Descriptions for Quick-Check Procedure</i>
	2.20 - 2.30 Faulty or Sluggish Operation	2.21 Lack of lubrication (parallel arm pivot pins, rotating pivot slide arm pivot pins, platform pivot pin, handrail pivot pins and platform fold axles)	Replace worn bushings and/or pins. Lubricate platform pivot pin and fold axles. See <i>Maintenance and Lubrication Schedule and Diagram</i>

continued

continued

Troubleshooting Diagnosis Chart

FUNCTION	SYMPTOM	POSSIBLE CAUSE	REMEDY	
<div>continued</div> <div>2.00 PLATFORM UNFOLD (Out)</div>	<div>continued</div> <div>2.20 - 2.30 Faulty or Sluggish Operation</div>	2.22 Misalignment or damage to: <ul style="list-style-type: none">• Parallel arms and/or pivot pins• Rotating pivot slide arms and/or pivot pins• Handrails and/or pivot pins• Platform fold axles• Platform pivot pins/lower fold arms	Correct/Replace/Lubricate. <i>See Maintenance and Lubrication Schedule and Diagram</i>	
		2.23 Mechanical binding	Check and correct	
		2.24 Misalignment of towers (upright supports)	Correct. <i>See Lift Positioning (pages 10-12) and Positioning and Clearance Checklist (pages 24 and 25).</i>	
		2.25 Cylinder-mounted unfold assist compression spring collar(s) out of adjustment	Correct or replace	
		2.26 Gas springs missing, loose, weak or otherwise defective	Correct or replace	
		2.27 Restriction in hydraulic lines	Check for contamination or kinks - correct or replace	
		2.28 Hydraulic fluid too thick due to cold climate	Thin with Diesel fuel - 2 T. Change in spring. <i>See Systems Descriptions for full-time cold climate specifications</i>	
		2.29 Platform stop block out of adjustment	<i>See Floor Level Guideline Adjustment on pages 30-32.</i>	
		2.30 Lift-Tite™ latch(es) not releasing	Dampener spring(s) mounted upside down	
	2.31 See 2.15 and 2.16			
	<div>2.40 Faulty Floor Level Switching</div>	2.41 See 2.13 and 2.14		
<div>3.00 Platform DOWN</div>	<div>3.10 No Operation</div>	3.11 Platform not unfolded 3.12 See 1.20 3.13 Down and/or Bridge solenoid/valves: Poor connection, bent shaft or contaminated filter 3.14 See 2.13, 2.14, 2.15 and 2.23 3.15 Bridging relay defective 3.16 See 4.12, 4.13	Unfold platform Check for loose connection or replace. <i>See Systems Descriptions for Quick-Check Procedure</i> Replace	
	<div>3.20 Faulty or Sluggish Operation</div>	3.21 Unfold solenoid/valve: Poor connection or bent shaft 3.22 See 2.21, 2.22, 2.23, 2.24, 2.27, 2.28 and 3.13	Check for loose connection or replace	
	<div>4.00 Bridging</div>	<div>4.10 No Operation</div>	4.11 Bridging solenoid/valve stuck open due to contamination or otherwise defective	Replace
			4.12 Bridging microswitch out of adjustment or defective	Adjust or replace.
			4.13 Bridging microswitch harness disconnected, damaged or otherwise defective	Connect, repair or replace
			4.14 See 3.15	

Troubleshooting Diagnosis Chart

FUNCTION	SYMPTOM	POSSIBLE CAUSE	REMEDY
5.00 ROLL STOP LATCH Faulty Unlatching	5.10 Faulty Unlatching	5.11 Platform not fully lowered 5.12 Obstruction under platform preventing latch foot from contacting surface 5.13 Roll stop damaged (bent, deformed or misaligned) 5.14 Latch bent, deformed or misaligned 5.15 Latch pivot pin adapters damaged or missing 5.16 Lack of lubrication	Lower platform Remove obstruction or lower platform in different location (level surface) Correct or replace. Correct or replace Correct or replace Lubricate — <i>See Maintenance and Lubrication Schedule and Diagram</i>
	6.00 OUTBOARD ROLL STOP	6.11 See 5.11, 5.12, 5.13, 5.14 and 5.15 6.12 Roll stop cylinder compression spring loose, weak or defective 6.13 Roll stop cylinder rod length 6.14 Worn bushings and/or pins 6.15 Mechanical binding 6.16 Roll stop lever damaged or mounting hardware missing 6.17 See 1.00 and 2.17	Adjust and tighten Allen head lock collar or replace spring. Adjust (loosen jam nut and adjust cylinder rod as detailed on page 33). Note: It may be necessary to release spring tension. Replace bushings and/or pins Check and correct Correct or replace
	6.20 Faulty Fold	6.21 Roll stop cylinder leaks 6.22 Roll stop cylinder breather plugged 6.23 Excessive roll stop cylinder drag 6.24 See 1.00, 6.10 and 8.00	Replace cylinder Correct Replace cylinder
7.00 ROLL STOP LATCH Faulty Latching	7.10 Faulty Latching	7.11 Platform not raised 2" above the ground level 7.12 Damaged, detached or missing latch spring 7.13 See 5.13, 5.14, 5.15, 5.16, 6.12 and 6.13	Raise platform 2" minimum. Correct or replace
8.00 PLATFORM UP	8.10 No Operation	8.11 Backup pump release valve not closed 8.12 See 1.00 8.13 Up/Fold microswitch out of adjustment or defective 8.14 Microswitch harness disconnected or damaged 8.15 Up/Fold solenoid not functioning 8.16 Motor brushes worn	Close valve Adjust or replace. <i>See Microswitches in Systems Descriptions for details (pages 42 and 43)</i> Connect, repair or replace Check for loose connection or replace Replace pump motor
	8.20 Motor Runs But Doesn't Lift	8.21 See 8.11 8.22 Low hydraulic fluid supply. Note: Fluid should be changed if there is visible contamination. Inspect the hydraulic system for leaks if fluid level is low.	Add Dextron III transmission fluid. Check oil level with platform fully lowered and roll stop fully unfolded . <i>See Systems Descriptions for details</i>

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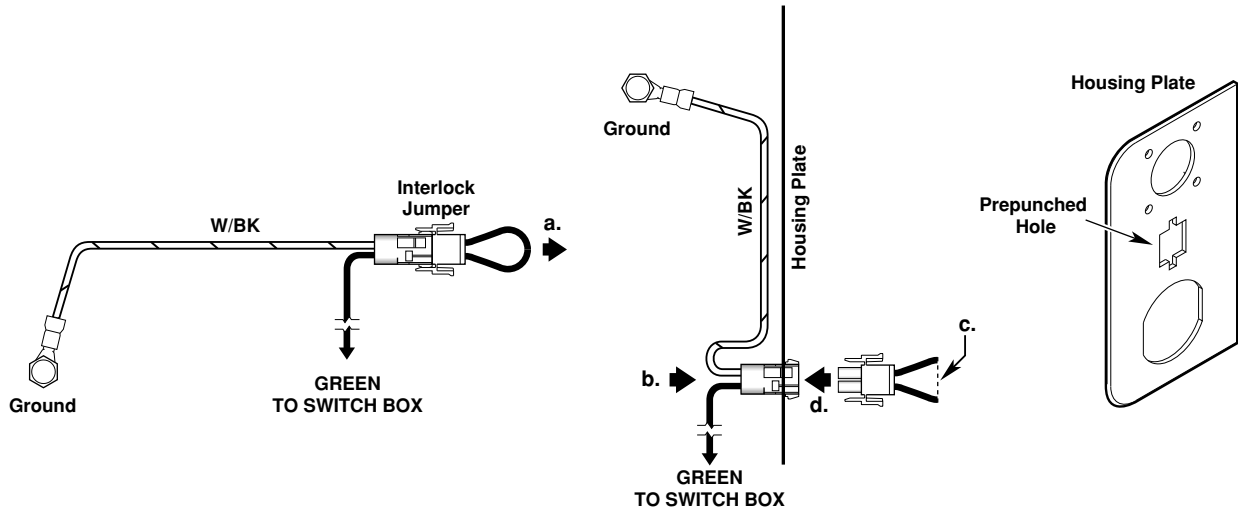
Troubleshooting Diagnosis Chart

FUNCTION	SYMPTOM	POSSIBLE CAUSE	REMEDY
8.00 PLATFORM UP	<small>continued</small> 8.20 Motor Runs But Doesn't Lift	8.23 Leak in hydraulic system 8.24 Cylinder(s) leak 8.25 Down solenoid/valve stuck open due to contamination or otherwise defective	Repair Repair or replace — <i>See Systems Descriptions for details.</i> Replace
	8.30 Sluggish Operation	8.31 Relief valve set too low 8.32 Excessive load 8.33 See 3.20, 8.16 and 8.20	Factory set at 2100 psi. <i>See Systems Descriptions for adjustment procedure</i> Remove excess weight
	8.40 Platform Drifts Down	8.41 Backup pump release valve contamination 8.42 See 8.11 and 8.20	Flush clean or replace. <i>See Systems Descriptions for Priming and Flushing procedure</i>
	8.50 Faulty Floor Level Switching	8.51 See 8.13	
	8.60 Front and Rear Parallel Arms Not "In-Time" (out-of-sync)	8.61 See 2.15, 2.22, 2.23, 2.24, 2.26, and 2.27 8.62 Air in hydraulic lines	Check hydraulic fluid level and add Dextron III transmission fluid if required. Cycle lift 10 times pausing a few moments between cycles to allow air to move out of lines. Note: Check oil level with platform fully lowered and roll stop fully unfolded . <i>See Systems Descriptions for details.</i>
9.00 PLATFORM FOLD (In)	9.10 No Operation	9.11 Platform not fully raised 9.12 See 1.00 and 8.25 9.13 Up/Fold Microswitch defective or out of adjustment 9.14 Hydraulic Platform Sensor Pressure Switch out of adjustment or defective 9.15 Microswitch or hydraulic pressure switch harness(es) disconnected, damaged or otherwise defective	Raise platform Adjust or replace. <i>See Microswitches in Systems Descriptions for details (pages 42 and 43)</i> Adjust or replace. <i>See Hydraulic Platform Sensor Pressure Switch in Systems Descriptions for details (page 45)</i> Connect, repair or replace
	9.20 Motor Runs But Doesn't Fold	9.21 See 8.20	
	9.30 Faulty or Sluggish Operation	9.31 See 2.15, 2.16, 2.21, 2.22, 2.23, 2.24, 2.26, 2.27, 2.28, 9.13 and 9.14	
	9.40 Platform Drifts Down (Out)	9.41 See 8.40 9.42 Lift-Tite™ latches not securing platform mounted catch rollers.	Verify mounting hardware is in place and dampening springs retract after being extended. Platform catch roller retainers must be secure and rollers spin freely. Lubricate and/or replace.

Troubleshooting Diagnosis Chart

FUNCTION	SYMPTOM	POSSIBLE CAUSE	REMEDY
10.00 MANUAL BACKUP PUMP	10.10 Up/Fold (Faulty Operation)	10.11 See 8.11, 8.22, 8.24 and 8.41 10.12 Lost prime 10.13 Air leak at backup pump to pump interface (O-rings)	Prime. <i>See Systems Descriptions for Priming and Flushing procedure</i> Check tightness or leaks
	10.20 Down/Unfold (Faulty Operation)	10.21 See 3.20 10.22 Lift platform has drifted against Lift-Tite™ latches	Pump lift platform fully up then release
11.00 HANDRAILS	11.10 Faulty Operation	11.11 Slide support arm guide bolts improperly adjusted (tightness), missing or damaged	Correct or replace
		11.12 Worn bushings/pivot pins	Replace
		11.13 Pivot pins misaligned (snap ring missing) or otherwise damaged	Correct or replace
		11.14 Handrail bent, deformed or otherwise damaged	Correct or replace
12.00 Lift-Tite™ Latches	12.10 Faulty Operation	12.11 See 2.30 and 9.42 12.12 Defective dampening springs	Replace dampening springs

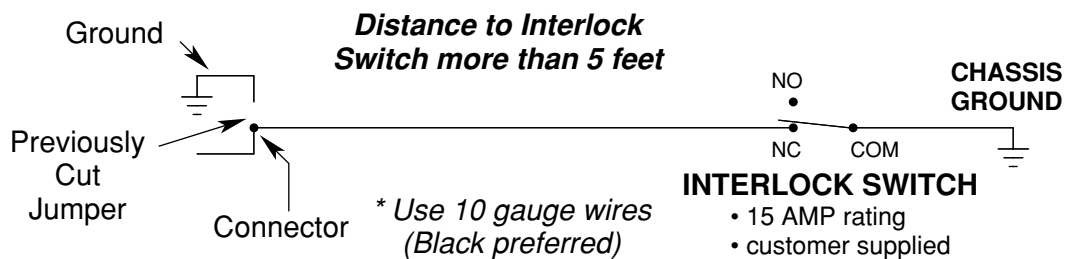
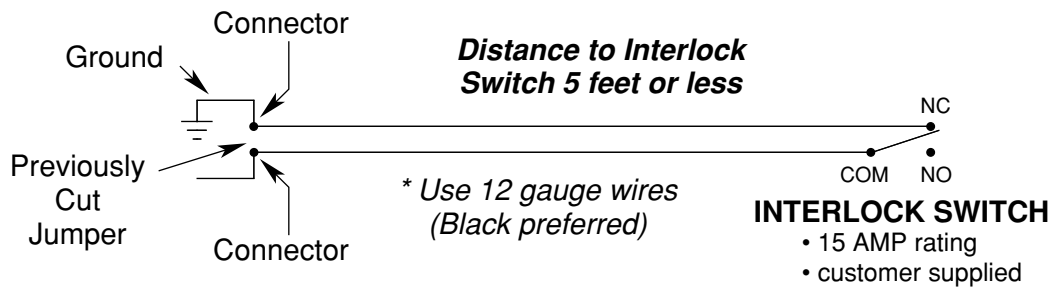
Lift Interlock Installation



Interlock Installation Instructions

- To connect remote interlock switch:
 - Remove (disconnect) jumper male plug.
 - Snap plastic female socket into prepunched housing plate.
 - Cut jumper wire and connect remote ground source.
See Specifications below.
 - Reconnect male plug and female socket.
- With lift unoccupied, test all lift functions to ensure proper interlock installation (*with interlock switch opened and closed*).

Specifications



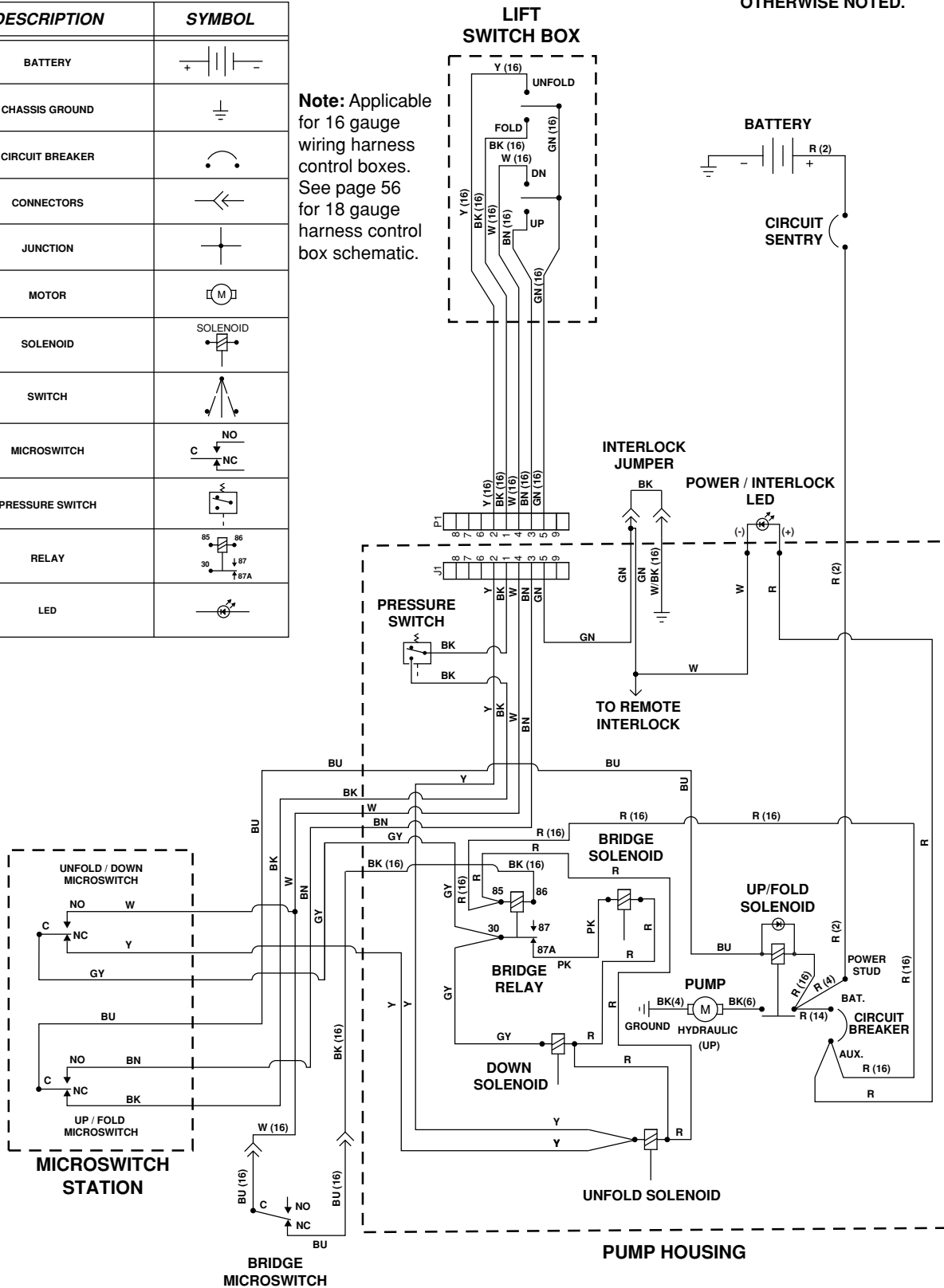
Lift Electrical Schematic

Note: Shown with lift in stowed position.

NOTE: ALL WIRES 20 GA. UNLESS OTHERWISE NOTED.

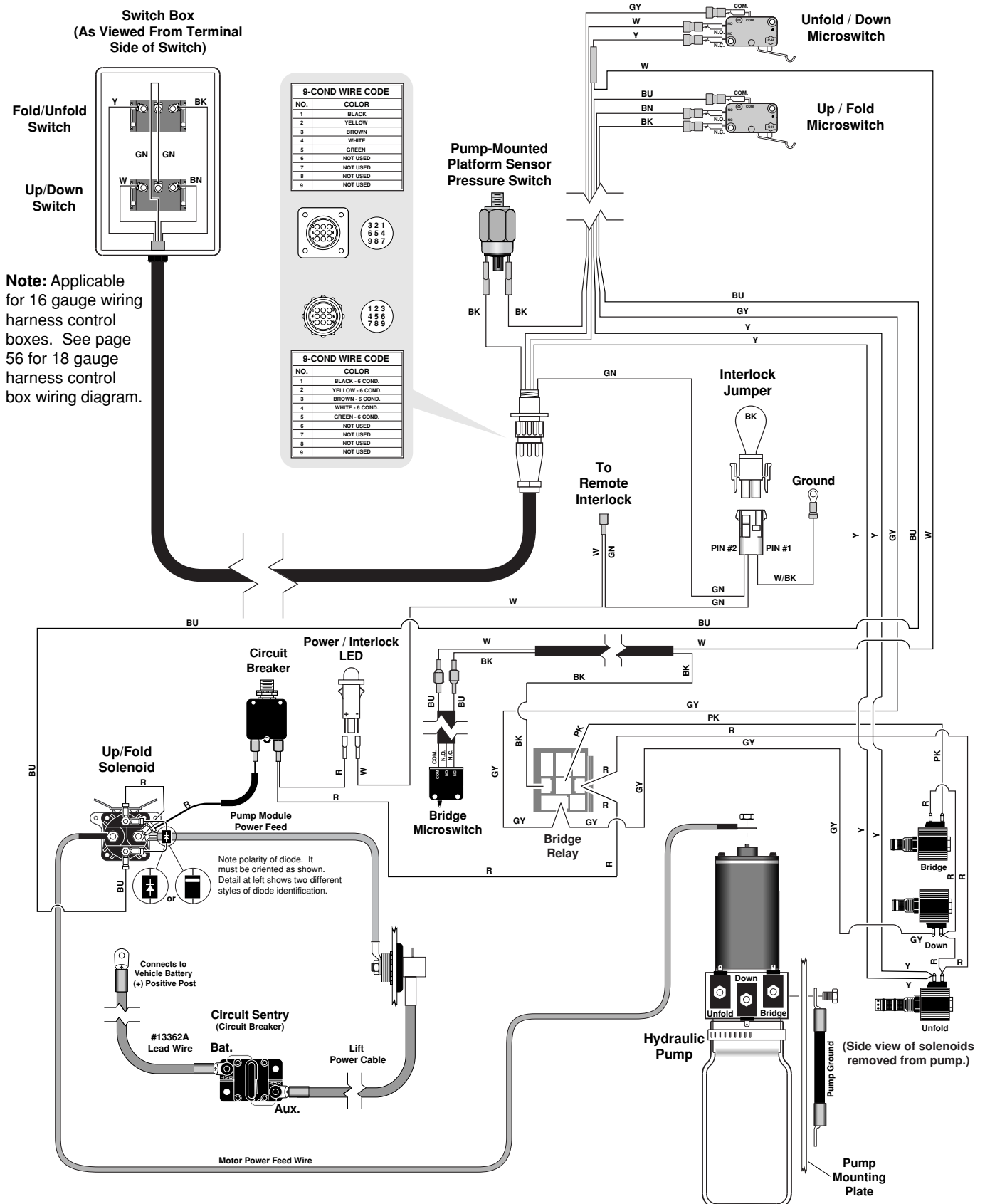
DESCRIPTION	SYMBOL
BATTERY	
CHASSIS GROUND	
CIRCUIT BREAKER	
CONNECTORS	
JUNCTION	
MOTOR	
SOLENOID	
SWITCH	
MICROSWITCH	
PRESSURE SWITCH	
RELAY	
LED	

Note: Applicable for 16 gauge wiring harness control boxes. See page 56 for 18 gauge harness control box schematic.

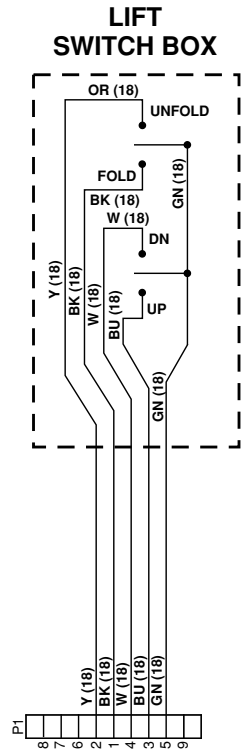


Lift Wiring Diagram

Note: Shown with lift in stowed position.



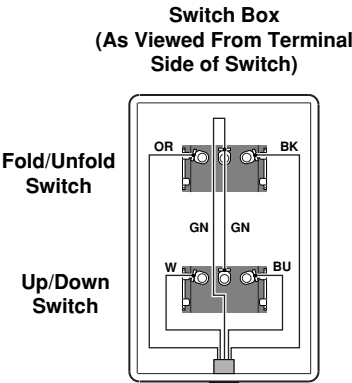
18 Gauge Lift Control Box Electrical Schematic



Note: Applicable for 18 gauge wiring harness control box 900-5903AQD. See page 54 for 16 gauge harness control box schematic.

Note: All other elements of schematic on page 54 are applicable for all lifts.

18 Gauge Lift Control Box Wiring Diagram






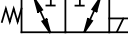
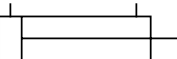










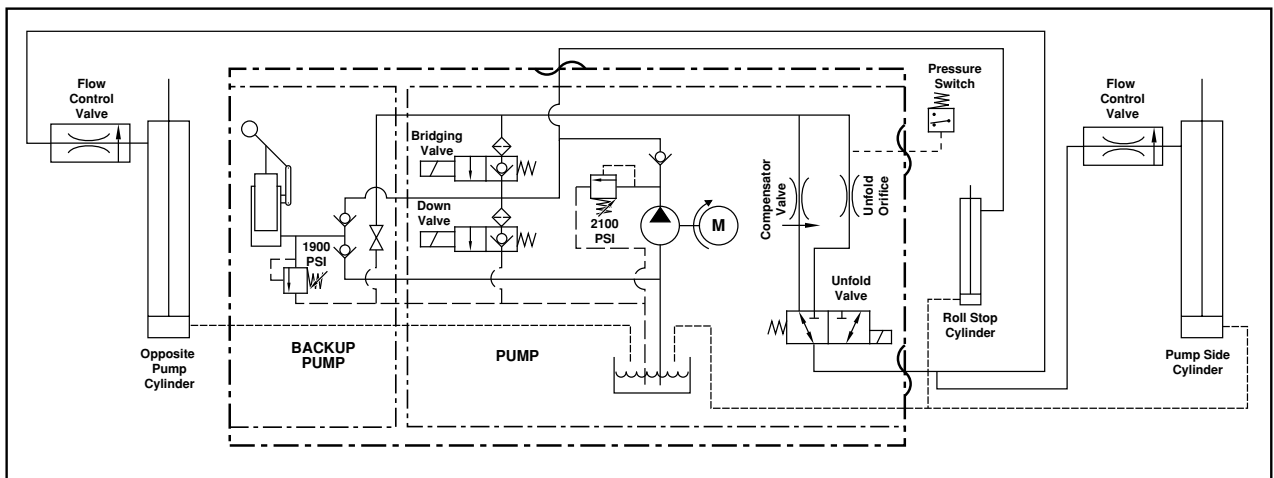
Note: Applicable for 18 gauge wiring harness control box 900-5903AQD. See page 55 for 16 gauge harness control box wiring diagram.

Note: All other elements of wiring diagram on page 55 are applicable for all lifts.

NO.	COLOR
1	BLACK - 6 COND.
2	ORANGE - 6 COND.
3	BLUE - 6 COND.
4	WHITE - 6 COND.
5	GREEN - 6 COND.
6	NOT USED
7	NOT USED
8	NOT USED
9	NOT USED

Hydraulic Schematic

Description	Symbol	Description	Symbol
Pump, Fixed Displacement		Pressure Compensated Flow Control	
Pump Motor		2 Way 2 Position Solenoid Valve	
Backup Pump		3 Way 2 Position Solenoid Valve	
Cylinder, Single Acting		Relief Valve	
Check Valve		Pressure Switch	
Unfold Orifice		Filter Screen	
Manual Shutoff Valve		Reservoir, Vented	
Hydraulic Port			

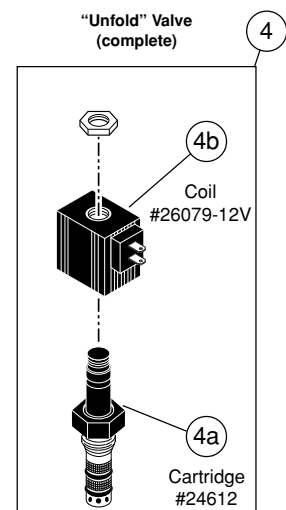
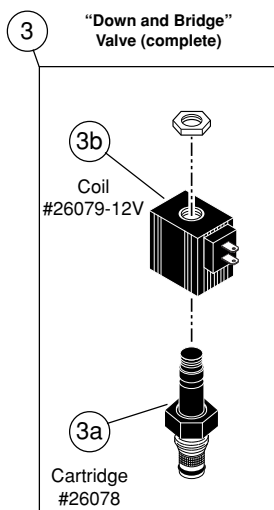


Rear Pump Hydraulics Parts List

Item	Qty.	Description	L915	L916	L917	L918	L919
			L915IB	L916IB	L917IB	L918IB	L919IB
1	1	Pump Assy. (M268) Bridging with #26578 Fitting	25597A12V-A6	25597A12V-A6	25597A12V-A6	25597A12V-A6	25597A12V-A6
2	1	Motor, Pump - 12 Volt	14785-IS	14785-IS	14785-IS	14785-IS	14785-IS
3	2	Valve Assembly, "Down and Bridge" (complete)	26076-12V	26076-12V	26076-12V	26076-12V	26076-12V
3a	2	Cartridge (only), Valve, "Down and Bridge" (shown below)	26078	26078	26078	26078	26078
3b	1	Coil (only), Valve, "Down and Bridge" (shown below)	26079-12V	26079-12V	26079-12V	26079-12V	26079-12V
4	1	Valve Assembly, "Unfold" (complete)	26075-12V	26075-12V	26075-12V	26075-12V	26075-12V
4a	1	Cartridge (only), Valve, "Unfold" (shown below)	24612	24612	24612	24612	24612
4b	1	Coil (only), Valve, "Unfold" (shown below)	26079-12V	26079-12V	26079-12V	26079-12V	26079-12V
5	1	Clamp, Reservoir-H-48	17069	17069	17069	17069	17069
6	1	Cap, Reservoir Filler	16935	16935	16935	16935	16935
7	2	Connector, Plastic "Y", 1/8" O.D.	18877	18877	18877	18877	18877
8	1	Hand Pump (Backup) with O-Rings (Item 9)	26074	26074	26074	26074	26074
9	4	O-Ring (only), Hand Pump Mounting	17351	17351	17351	17351	17351
10	3	Screw, 1/4"-20 x 2-1/4", Allen Head	26080	26080	26080	26080	26080
11	1	Handle with Grip	17206A	17206A	17206A	17206A	17206A
12	4	Fitting, Male 7/16-20 SAE O-Ring to Male 7/16-20 JIC 37°	24504	24504	24504	24504	24504
13	1	Elbow, 7/16-20 JIC 37° Female Swivel (1)-7/16-20 JIC 37° Male (2)	26579	26579	26579	26579	26579
14	1	Elbow, 65° - Male 7/16-20 SAE O-Ring to 7/16-20 SAE O-Ring Boss	26578	26578	26578	26578	26578
15	1	Switch, Pressure 1600 PSI, 7/16-20 SAE O-Ring Male	26577	26577	26577	26577	26577
16	2	Cylinder ✓	C1514.3-9407	C1514.3-9408	C1514.3-9408	C1514.3-9407	C1514.3-9408
17	2	Elbow, 90°, 7/16-20 SAE O-Ring Male	26576	26576	26576	26576	26576
18	2	Valve, Pressure Compensator - 1 GPM, 7/16-20 SAE O-Ring Boss Port	26575	26575	26575	26575	26575
19	1	Hose Assembly, 1/8" (Opposite-Pump-Side)	16004A-076	16004A-079	16004A-082	16004A-079	16004A-083
20	1	Hose Assembly, 1/8" (Pump-Side)	16004A-038	16004A-042	16004A-042	16004A-038	16004A-042
21	3	Elbow, 90° 1/4" NPT Male to 1/4" Barbed	15150	15150	15150	15150	15150
22	1	Hose, Therm. Plastic-Black, 1/8" I.D.	23742R* (68")	23742R* (68")	23742R* (68")	23742R* (68")	23742R* (68")
23	1	Hose, Therm. Plastic-Black, 1/8" I.D.	23742R* (30")	23742R* (30")	23742R* (30")	23742R* (30")	23742R* (30")
24	1	Cylinder Assembly, Roll Stop - 9/16-18 SAE O-Ring Boss Port	25309-05A	25309-05A	25309-05A	25309-05A	25309-05A
25	1	Fitting, 90°-9/16-18 SAE O-Ring Male to 7/16-20 JIC 37° Male	87622	87622	87622	87622	87622
26	1	Hose Assembly, 3/16" with (2) Guards - Roll Stop	915-2601-125	915-2601-135	915-2601-138	915-2601-128	915-2601-139
27	1	Hose, Therm. Plastic-Black, 1/8" I.D.	23742R* (133")	23742R* (133")	23742R* (133")	23742R* (133")	23742R* (133")

✓ **Seal Kits:** If repairing a cylinder, order Seal Kit #1500-0500P.

* Raw material items ordered and priced per inch (order specified length).

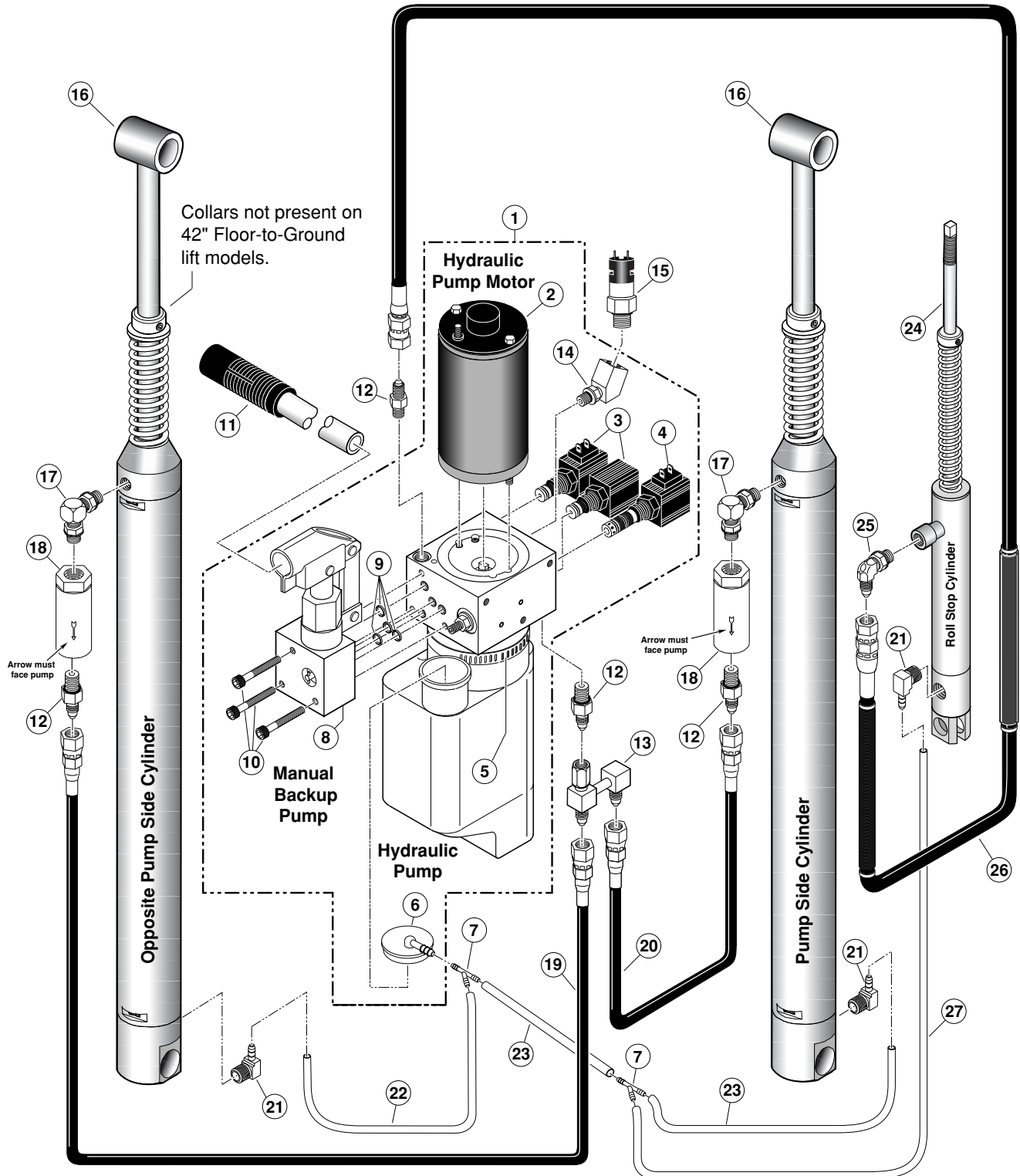


Rear Pump Hydraulics Diagram

Note: See pages 60 and 61 for **Front Pump** Hydraulic Diagram and Parts List.

Note: See page 57 for L915 Hydraulic Schematic.

Note: Illustrations depict components as equipped when specified lift series was in production. Replacement components such as hose assemblies will typically reflect the most current configuration.

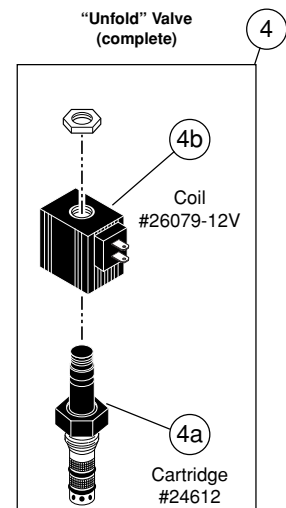
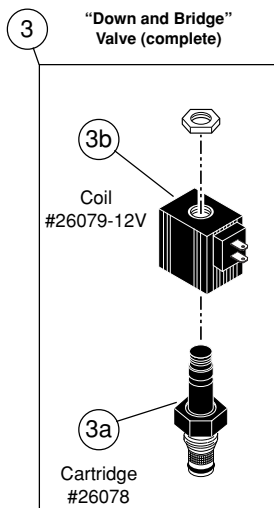


Front Pump Hydraulics Parts List

Item	Qty.	Description	L915F	L916F	L917F	L918F	L919F
			L915FIB	L916FIB	L917FIB	L918FIB	L919FIB
1	1	Pump Assy. (M268) Bridging with #26578 Fitting	25597A12V-A6	25597A12V-A6	25597A12V-A6	25597A12V-A6	25597A12V-A6
2	1	Motor, Pump - 12 Volt	14785-IS	14785-IS	14785-IS	14785-IS	14785-IS
3	2	Valve Assembly, "Down and Bridge" (complete)	26076-12V	26076-12V	26076-12V	26076-12V	26076-12V
3a	2	Cartridge (only), Valve, "Down and Bridge" (shown below)	26078	26078	26078	26078	26078
3b	1	Coil (only), Valve, "Down and Bridge" (shown below)	26079-12V	26079-12V	26079-12V	26079-12V	26079-12V
4	1	Valve Assembly, "Unfold" (complete)	26075-12V	26075-12V	26075-12V	26075-12V	26075-12V
4a	1	Cartridge (only), Valve, "Unfold" (shown below)	24612	24612	24612	24612	24612
4b	1	Coil (only), Valve, "Unfold" (shown below)	26079-12V	26079-12V	26079-12V	26079-12V	26079-12V
5	1	Clamp, Reservoir-H-48	17069	17069	17069	17069	17069
6	1	Cap, Reservoir Filler	16935	16935	16935	16935	16935
7	2	Connector, Plastic "Y", 1/8" O.D.	18877	18877	18877	18877	18877
8	1	Hand Pump (Backup) with O-Rings (Item 9)	26074	26074	26074	26074	26074
9	4	O-Ring (only), Hand Pump Mounting	17351	17351	17351	17351	17351
10	3	Screw, 1/4"-20 x 2-1/4", Allen Head	26080	26080	26080	26080	26080
11	1	Handle with Grip	17206A	17206A	17206A	17206A	17206A
12	4	Fitting, Male 7/16-20 SAE O-Ring to Male 7/16-20 JIC 37°	24504	24504	24504	24504	24504
13	1	Elbow, 7/16-20 JIC 37° Female Swivel (1)-7/16-20 JIC 37° Male (2)	26579	26579	26579	26579	26579
14	1	Elbow, 65° - Male 7/16-20 SAE O-Ring to 7/16-20 SAE O-Ring Boss	26578	26578	26578	26578	26578
15	1	Switch, Pressure 1600 PSI, 7/16-20 SAE O-Ring Male	26577	26577	26577	26577	26577
16	2	Cylinder ✓	C1514.3-9407	C1514.3-9408	C1514.3-9408	C1514.3-9407	C1514.3-9408
17	2	Elbow, 90°, 7/16-20 SAE O-Ring Male	26576	26576	26576	26576	26576
18	2	Valve, Pressure Compensator - 1 GPM, 7/16-20 SAE O-Ring Boss Port	26575	26575	26575	26575	26575
19	1	Hose Assembly, 1/8" (Opposite-Pump-Side)	16004A-076	16004A-079	16004A-082	16004A-081	16004A-083
20	1	Hose Assembly, 1/8" (Pump-Side)	16004A-038	16004A-042	16004A-042	16004A-038	16004A-042
21	3	Elbow, 90° 1/4" NPT Male to 1/4" Barbed	15150	15150	15150	15150	15150
22	1	Hose, Therm. Plastic-Black, 1/8" I.D.	23742R* (68")	23742R* (68")	23742R* (68")	23742R* (68")	23742R* (68")
23	1	Hose, Therm. Plastic-Black, 1/8" I.D.	23742R* (30")	23742R* (30")	23742R* (30")	23742R* (30")	23742R* (30")
24	1	Cylinder Assembly, Roll Stop - 9/16-18 SAE O-Ring Boss Port	25309-05A	25309-05A	25309-05A	25309-05A	25309-05A
25	1	Fitting, 90°-9/16-18 SAE O-Ring Male to 7/16-20 JIC 37° Male	87622	87622	87622	87622	87622
26	1	Hose Assembly, 3/16" with (2) Guards (Lower)	915-5602-81	915-5602-92.5	915-5602-92.5	915-5602-81	915-5602-91
27	1	Hose Assembly, 3/16" (Upper)	915-5603-83.5	915-5603-83.5	915-5603-86.5	915-5603-86.5	915-5603-87.5
28	1	Hose, Therm. Plastic-Black, 1/8" I.D.	23742R* (133")	23742R* (133")	23742R* (133")	23742R* (133")	23742R* (133")

✓ **Seal Kits:** If repairing a cylinder, order Seal Kit #1500-0500P.

* Raw material items ordered and priced per inch (order specified length).

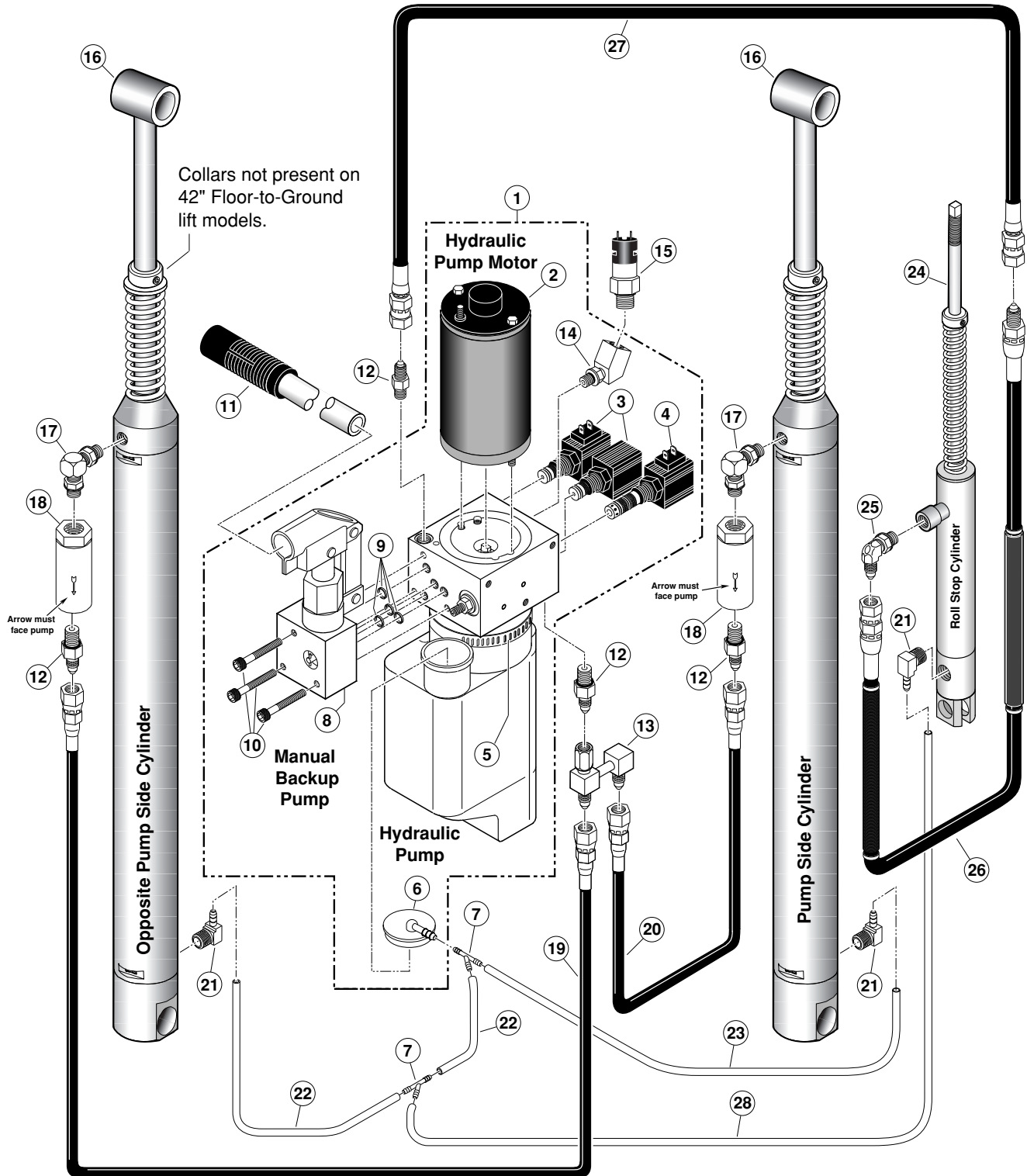


Front Pump Hydraulics Diagram

Note: See pages 58 and 59 for **Rear Pump** Hydraulic Diagram and Parts List.

Note: See page 57 for L915 Hydraulic Schematic.

Note: Illustrations depict components as equipped when specified lift series was in production. Replacement components such as hose assemblies will typically reflect the most current configuration.



Rear Pump Module Parts List

Item	Qty.	Description	L915, L915IB	L916, L916IB
			L917, L917IB	L918, L918IB
			L919, L919IB	
		Part No.	Part No.	
	1	Pump Module (complete), 12 Volt, Rear	915R7516IBQD	915R7516IBQD
1	1	Pump Assembly - Bridge, Prestolite (M268BP with Reservoir/with Backup pump)	25597A12V-A6	25597A12V-A6
2	2	Fitting, 7/16"-20 O-Ring Male / 7/16"-20 JIC 37° Male	24504	24504
3	1	Elbow, 7/16"-20 JIC 37° Female Swivel (1) / 7/16"-20 JIC 37° Male (2)	26579	26579
4	1	Switch, Pressure	26577	26577
5	1	Harness, Pressure Switch / Up - Fold Microswitch	29553A	29553A
6	1	See Control Box Assembly and Harness Options ✕ See note below		
7	1	See Control Box Assembly and Harness Options ✕ See note below		
8	1	Control Box, Bracket-mount (Items 9, 10 and 11) ✕ See note below	16970A	16970A
9	1	Control Box (only) ✕ See note below	16932	16932
10	1	Clip, Bracket-Mount ✕ See note below	16933	16933
11	3	Screw, #6-20 x 1-1/4", Pan Head, Phillips ✕ See note below	16945	16945
12	1	Face Plate and Switch Assembly ✕ See note below	17909A-05	17909A-05
13	1	Face Plate ✕ See note below	16931-05	16931-05
14	1	Switch, S.P.D.T., Rocker (Unfold/Fold) - Orange ✕ See note below	17332	17332
15	1	Switch, S.P.D.T., Rocker (Down/Up) - Red ✕ See note below	16942	16942
16	4	Screw, #6-20 x 3/4", Pan Head, Phillips ✕ See note below	24739	24739
17	1	Strain Relief (SR 7W-2) ✕ See note below (7A, 7B and 7C only)	11352	11352
18	1	Cover, Switch Box ✕ See note below	26798	26798
19	1	Plate, Backing / Mounting, Rear	975R0501	975R0501
20	1	Harness, Pump Module ✕ See note below	918R7914IBQD	915R7914IBQD
21	4	Snap Rivet, .122" x .197/.236", Nylon, Black ✕ See note below	29874	29874
22	1	Jumper, Interlock	15708A	15708A
23	1	Relay, 30 Amp, S.P.D.T., 12 Volt	18087	18087
24	1	Pop Rivet, SD64BS, 3/16"	11513	11513
25	1	Washer, #10 Flat	11541	11541
26	2	Washer, 5/16" Flat	10063	10063
27	1	Cable, Ground - 46" ✕ See note below	26161A	26161A
28	2	Bolt, 5/16"-18 x 1/2", Nylock, Hex ✕ See note below	10012	10012
29	2	Bolt, 5/16"-18 x 3/4" w/Nylock Patch ✕ See note below	29608	29608
30	1	Solenoid, Up - Prestolite Short / 100 Amp - 12V	28308	28308
31	1	Jumper, 16 Gauge	800-2000	800-2000
32	1	Diode Assembly, Up Solenoid	73906A	73906A
33	1	Power Cable, Millennium - Up Solenoid to Motor	29049	29049
34	1	Harness, Solenoid / Microswitch	29552A	29552A
35	1	Cable, Pump Module Hookup / Power	26082A-4	26082A-4
36	1	Harness, Up Solenoid / Circuit Breaker	25809A	25809A
37	1	Circuit Breaker, 5 Amp, Manual Reset	25736	25736
38	1	Stud, Power Feed	26084	26084
39	1	Cable, Lift Power, 37' with Loom ✕ See note below	205-0712-37	205-0712-37
40	1	Rubber Boot, Red ✕ See note below	82046	82046
41	1	Clamp, Hose	29663	29663
42	1	Diode, Green LED - Panel Mount	29545	29545
43	1	Receptacle, Clip on	28803	28803
44	1	Cover, Pump, 2pc. - Back / Bottom - Rear Pump	915R5513B	915R5513B
45	1	Handle, Pump - w/Grip	17206A	17206A
46	1	Cover, Pump, 2pc. - Top / Front Assembly - Rear Pump (Includes Items 47 - 57)	915R5513TA	915R5513TA
47	1	Cover, Pump, 2pc. - Top / Front - Rear Pump	915R5513T	915R5513T
48	1	Clip, Pump Handle - Top	915-5517	915-5517
49	1	Washer, Nylon, 1/4" I.D. x 11/16" O.D. x .030"	12690	12690
50	3	Rivet, Pop, SD43BS - 1/8" - .13/.19"	12954	12954
51	1	Clip, Pump Handle - Bottom	915-5518	915-5518
52	1	Stud, Wing Head - 1/4 Turn	28804	28804
53	1	Retainer, Push-On	28805	28805
54	1	Decal, Removal Instruction - Pump Handle (Not shown - see Decal Section)	29052	29052
55	1	Decal, Hydraulic Pressure Switch Instruction and Warning (Not shown - see Decal Section)	27154	27154
56	1	Decal, Manual Hand Pump Instruction (Not shown - see Decal Section)	29082	29082
57	1	Decal, Pump Cover Installation / Removal (Not shown - see Decal Section)	29051	29051
58	1	Decal, Pressure Relief Warning (Not shown - see Decal Section)	22249	22249
59	1	Washer, 5/16" External Tooth	16368	16368

Control Box Assembly and Harness Options

Item	Qty.	Description	Part No.
6A	1	Control Box Assembly (with Standard Quick-Disconnect Harness) ✕ See Note Below	900-0903AQD
6B	1	Control Box Assembly (with Armored Quick-Disconnect Harness) ✕ See Note Below	900-0903AQDA
6C	1	Control Box Assembly (with Coiled Quick-Disconnect Harness) ✕ See Note Below	900-0903AQDC
6D	1	Control Box Assembly (with 7' Long, 18 Ga. , Quick-Disconnect Harness) ✕ See Note Below (not shown)	900-5903AQD
7A	1	Harness, Standard , Quick-Disconnect (without control box) ✕ See Note Below	900-0902AQD
7B	1	Harness, Armored , Quick-Disconnect (without control box) ✕ See Note Below	900-0902AQDA
7C	1	Harness, Coiled , Quick-Disconnect (without control box) ✕ See Note Below	900-0902AQDC
7D	1	Harness, 7' Long, 18 Ga. , Quick-Disconnect (without control box) ✕ See Note Below (not shown)	900-5902AQD

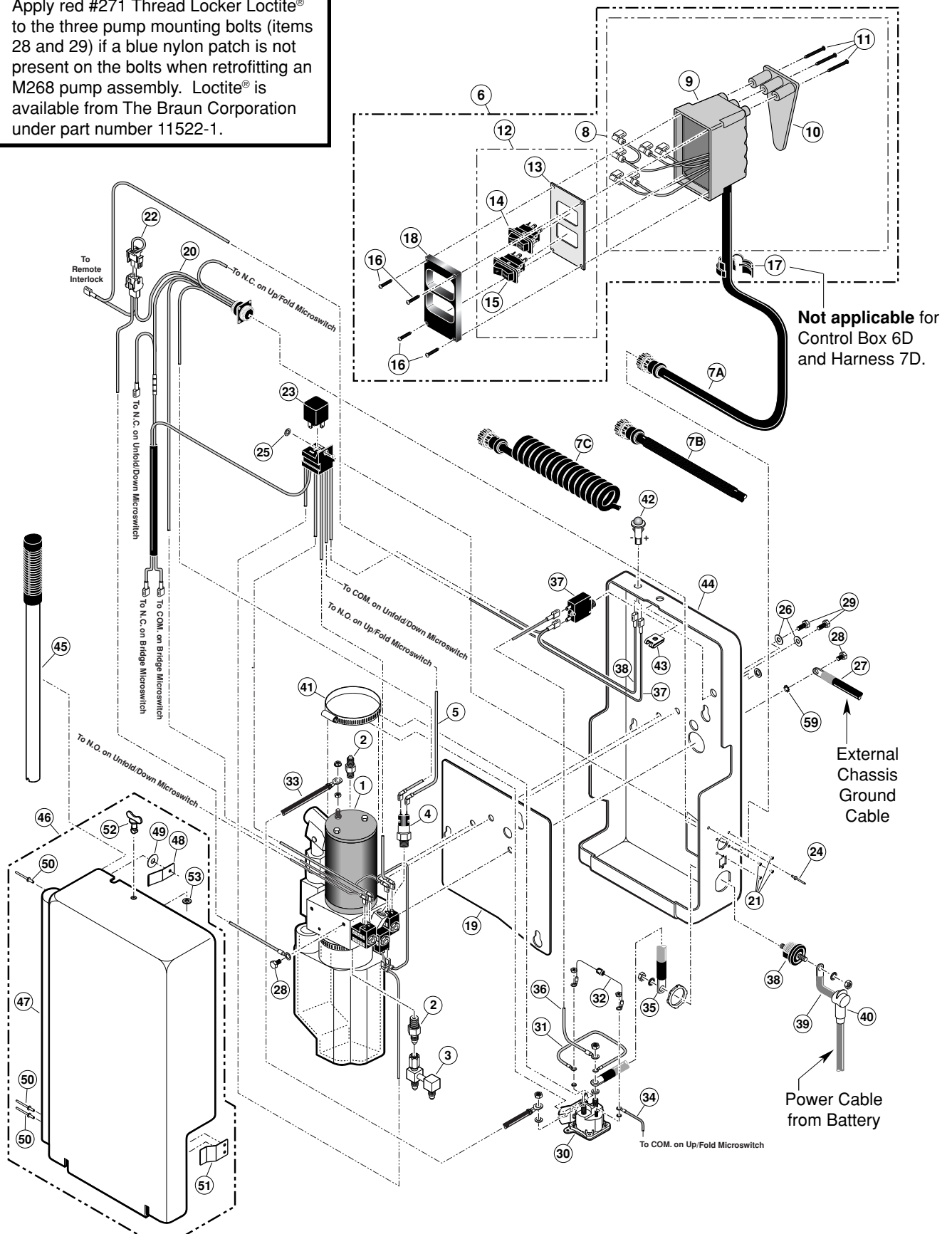
✕ Indicates items available for replacement part purposes **only**. These items **are not** included with replacement pump modules.

* Apply red #271 Thread Locker Loctite® to the three pump mounting bolts (items 28 and 29) if a blue nylon patch is not present on the bolts when retrofitting an M268BP pump assembly. Loctite® is available from The Braun Corporation under part number 11522-1.

Rear Pump Module Diagram

Pump Mounting Bolts

Apply red #271 Thread Locker Loctite® to the three pump mounting bolts (items 28 and 29) if a blue nylon patch is not present on the bolts when retrofitting an M268 pump assembly. Loctite® is available from The Braun Corporation under part number 11522-1.



Front Pump Module Parts List

			L915F, L915FIB	L916F, L916FIB
			L917F, L917FIB	L918F, L918FIB
			L919F, L919FIB	L919F, L919FIB
Item	Qty.	Description	Part No.	Part No.
	1	Pump Module (complete), 12 Volt, Rear	915F7516IBQD	915F7516IBQD
1	1	Pump Assembly - Bridge, Prestolite (M268BP with Reservoir/with Backup pump)	25597A12V-A6	25597A12V-A6
2	2	Fitting, 7/16"-20 O-Ring Male / 7/16"-20 JIC 37° Male	24504	24504
3	1	Elbow, 7/16"-20 JIC 37° Female Swivel (1) / 7/16"-20 JIC 37° Male (2)	26579	26579
4	1	Switch, Pressure	26577	26577
5	1	Harness, Pressure Switch / Up - Fold Microswitch	29553A	29553A
6	1	See Control Box Assembly and Harness Options ✕ See note below		
7	1	See Control Box Assembly and Harness Options ✕ See note below		
8	1	Control Box, Bracket-mount (Items 9, 10 and 11) ✕ See note below	16970A	16970A
9	1	Control Box (only) ✕ See note below	16932	16932
10	1	Clip, Bracket-Mount ✕ See note below	16933	16933
11	3	Screw, #6-20 x 1-1/4", Pan Head, Phillips ✕ See note below	16945	16945
12	1	Face Plate and Switch Assembly ✕ See note below	17909A-05	17909A-05
13	1	Face Plate ✕ See note below	16931-05	16931-05
14	1	Switch, S.P.D.T., Rocker (Unfold/Fold) - Orange ✕ See note below	17332	17332
15	1	Switch, S.P.D.T., Rocker (Down/Up) - Red ✕ See note below	16942	16942
16	4	Screw, #6-20 x 3/4", Pan Head, Phillips ✕ See note below	24739	24739
17	1	Strain Relief (SR 7W-2) ✕ See note below (7A, 7B and 7C only)	11352	11352
18	1	Cover, Switch Box ✕ See note below	26798	26798
19	1	Plate, Backing / Mounting, Rear	975R0501	975R0501
20	1	Harness, Pump Module ✕ See note below	918R7914IBQD	915R7914IBQD
21	4	Snap Rivet, .122" x .197/.236", Nylon, Black ✕ See note below	29874	29874
22	1	Jumper, Interlock	15708A	15708A
23	1	Relay, 30 Amp, S.P.D.T., 12 Volt	18087	18087
24	1	Pop Rivet, SD64BS, 3/16"	11513	11513
25	1	Washer, #10 Flat	11541	11541
26	2	Washer, 5/16" Flat	10063	10063
27	1	Cable, Ground - 46" ✕ See note below	26161A	26161A
28	2	Bolt, 5/16-18 x 1/2", Hex, w/Nylock Patch ✕ See note below	10012	10012
29	2	Bolt, 5/16-18 x 3/4", Hex, w/Nylock Patch ✕ See note below	29608	29608
30	1	Solenoid, Up - Prestolite Short / 100 Amp - 12V	28308	28308
31	1	Jumper, 16 Gauge	800-2000	800-2000
32	1	Diode Assembly, Up Solenoid	73906A	73906A
33	1	Power Cable, Millennium - Up Solenoid to Motor	29049	29049
34	1	Harness, Solenoid / Microswitch	29552A	29552A
35	1	Cable, Pump Module Hookup / Power	26082A-4	26082A-4
36	1	Harness, Up Solenoid / Circuit Breaker	25809A	25809A
37	1	Circuit Breaker, 5 Amp, Manual Reset	25736	25736
38	1	Stud, Power Feed	26084	26084
39	1	Cable, Lift Power, 37' with Loom ✕ See note below	205-0712-37	205-0712-37
40	1	Rubber Boot, Red ✕ See note below	82046	82046
41	1	Clamp, Hose	29663	29663
42	1	Diode, Green LED - Panel Mount	29545	29545
43	1	Receptacle, Clip on	28803	28803
44	1	Cover, Pump, 2pc. - Back / Bottom, Front Pump	915F5513B	915F5513B
45	1	Handle, Pump - w/Grip	17206A	17206A
46	1	Cover, Pump, 2pc - Top / Front Assembly - Front Pump (Includes Items 47 - 57)	915F5513TA	915F5513TA
47	1	Cover, Pump, 2pc. - Top / Front, Front Pump	915F5513T	915F5513T
48	1	Clip, Pump Handle - Top	915-5517	915-5517
49	1	Washer, Nylon, 1/4" I.D. x 11/16" O.D. x .030"	12690	12690
50	3	Rivet, Pop, SD43BS - 1/8" - .13/.19"	12954	12954
51	1	Clip, Pump Handle - Bottom	915-5518	915-5518
52	1	Stud, Wing Head - 1/4 Turn	28804	28804
53	1	Retainer, Push-On	28805	28805
54	1	Decal, Removal Instruction - Pump Handle (Not shown - see Decal Section)	29052	29052
55	1	Decal, Hydraulic Pressure Switch Instruction and Warning (Not shown - see Decal Section)	27154	27154
56	1	Decal, Manual Hand Pump Instruction (Not shown - see Decal Section)	29082	29082
57	1	Decal, Pump Cover Installation / Removal (Not shown - see Decal Section)	29051	29051
58	1	Decal, Pressure Relief Warning (Not shown - see Decal Section)	22249	22249
59	1	Washer, 5/16" External Tooth	16368	16368

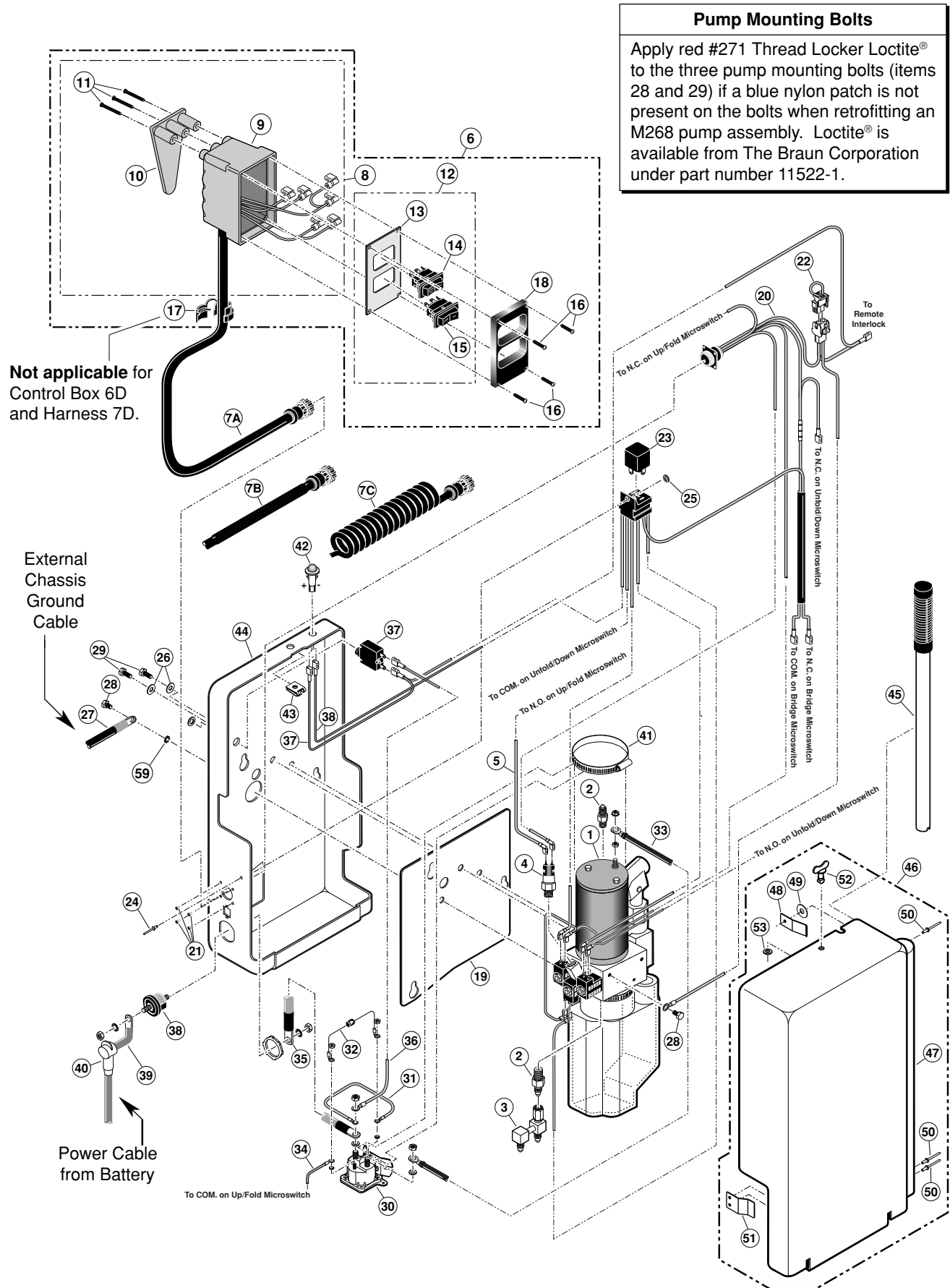
Control Box Assembly and Harness Options

Item	Qty.	Description	Part No.
6A	1	Control Box Assembly (with Standard Quick-Disconnect Harness) ✕ See Note Below	900-0903AQD
6B	1	Control Box Assembly (with Armored Quick-Disconnect Harness) ✕ See Note Below	900-0903AQDA
6C	1	Control Box Assembly (with Coiled Quick-Disconnect Harness) ✕ See Note Below	900-0903AQDC
6D	1	Control Box Assembly (with 7' Long, 18 Ga. , Quick-Disconnect Harness) ✕ See Note Below (not shown)	900-5903AQD
7A	1	Harness, Standard , Quick-Disconnect (without control box) ✕ See Note Below	900-0902AQD
7B	1	Harness, Armored , Quick-Disconnect (without control box) ✕ See Note Below	900-0902AQDA
7C	1	Harness, Coiled , Quick-Disconnect (without control box) ✕ See Note Below	900-0902AQDC
7D	1	Harness, 7' Long, 18 Ga. , Quick-Disconnect (without control box) ✕ See Note Below (not shown)	900-5902AQD

✕ Indicates items available for replacement part purposes **only**. These items **are not** included with replacement pump modules.

* Apply red #271 Thread Locker Loctite® to the three pump mounting bolts (items 28 and 29) if a blue nylon patch is not present on the bolts when retrofitting an M268BP pump assembly. Loctite® is available from The Braun Corporation under part number 11522-1.

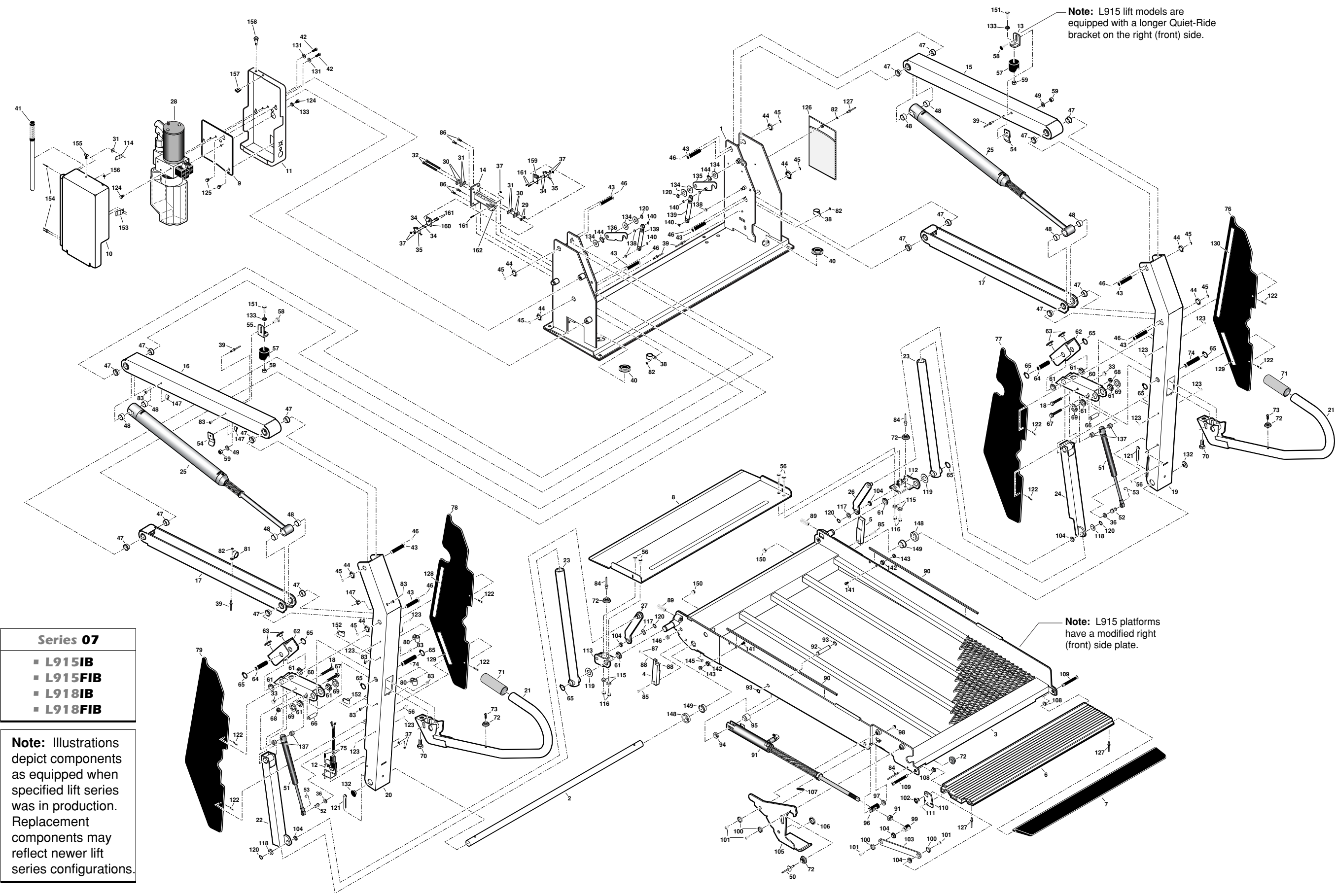
Front Pump Module Diagram



42" Floor-To-Ground Automatic Inboard Roll Stop IB Lift Models Repair Parts List

Part Numbers of Items Dedicated per Lift Model					
Item	Qty.	Description	L915IB	L915FIB	L918IB
1	1	Base Plate Weldment	915R7142W30	915F7142W30	918R7142W33
2	1	Pin, Platform Pivot	915U032430	915U032430	911-5324
3	1	Platform Weldment	915R63050IBW	915R63050IBW	917R63350IBW
4	1	Block, Platform Stop - Bridging - Rear	25777R	915-0311	25777R
5	1	Block, Platform Stop - Bridging - Front	915-0311	25777F	915-0311
6	1	Roll Stop (Extruded Aluminum)	915R4312-30	915R4312-30	915R4312-33
7	1	Roll Stop Nose, Rubber	24603-30	24603-30	24603-33
8	1	Bridge Plate	915U0145IB	915U0145IB	915U0148IB
9	1	Plate, Backing/Mounting-Pump Module	975R0501	975F0501	975R0501
10	1	Pump Cover, 2pc, Top-Front Assy.	915R5513TA	915F5513TA	915R5513TA
11	1	Pump Cover, 2pc, Back-Bottom	915R5513B	915F5513B	915R5513B
12	1	Bridge Switch Assembly	25463RA	25463FA	25463FA
13	1	Bracket, Mounting, Quiet-Ride	995-2392	995-2392	915-0392
Part Numbers of Items Identical on All Lift Models					
Item	Qty.	Description	Part No.	Item	Qty.
14	1	Weldment, Microswitch Bracket	975-0120W	88	2
15A	1	Parallel Arm Weldment, Top, Front	915-0422F	89	2
15B	1	Parallel Arm Assembly, Top, Front (w/Flanged Bearings)	915-0422FA	90	2
16A	1	Parallel Arm Weldment, Top, Rear	915-0422R	91	1
16B	1	Parallel Arm Assembly, Top, Rear (w/Flanged Bearings)	915-0422RA	92	1
17A	2	Parallel Arm Weldment, Bottom	915F4457	93	2
17B	2	Parallel Arm Assembly, Bottom (w/Flanged Bearings)	915F4457A	94	1
18	2	Bolt, 3/8-16 x 2", Hex Head, Cap	10027	95	1
19	1	Vertical Channel Weldment, Front	955F2442IBW	96	1
20	1	Vertical Channel Weldment, Rear	955R2442IBW	97	1
21	2	Handrail Weldment, ADA	915-0409WIB	98	1
22	1	Tube Wmt., Upper Fold Arm, Rear	915-0425RW	99	1
23	2	Tube Wmt., Lower Fold Arm	915-0426RW	100	4
24	1	Tube Wmt., Upper Fold Arm, Front	915-2425FW	101	4
25	2	Cylinder	C1514.3-9407	102	1
26	1	Lever, Inboard Barrier, Wmt., Front	915-0404FW	103	1
27	1	Lever, Inboard Barrier, Wmt., Rear	915-0404RW	104	4
28	1	Pump Assembly (M268 with Backup Pump)	25597A12V-A6	105	1
29	2	Nut, 1/4-20, Nylock	14614	106	1
30	4	Washer, 1/4" Flat	10062	107	1
31	5	Washer, 1/4" I.D. x 11/16" x .030" - Nylon	12690	108	2
32	2	Bolt, 1/4-20 x 5", Hex, All Thread	29083	109	2
33	2	Nut, 3/8-16, Hex, Lock	13617	110	1
34	4	Bushing, Microswitch	911-7125	111	1
35	2	Microswitch, Floor Level, Cupped	23184	112	1
36	2	Washer, 3/8", Lock	10069	113	1
37	7	Nut, #4-40 with Lock Washer	19537	114	1
38	2	Clamp, Insulate, 1-3/8" I.D.	29765	115	4
39	5	Rivet, Pop, SD6BS- 3/16"	14993	116	4
40	2	Grommet, Rubber, 1.25" I.D.	25916	117	2
41	1	Handle, Pump (w/Grip)	17206A	118	2
42	2	Bolt, 5/16-18 x 3/4", Nylock	29608	119	2
43	8	Pin, Pivot Parallel Arm	917-0403	120	6
44	8	Washer, 1/2" Flat, Black Zinc	25346	121	2
45	8	Screw, 5/16-18 x 3/4", SHFS	25527	122	8
46	8	Screw, Drive #8 x 3/16" Long, Black	24439BK	123	8
47	16	Bearing, Flange, 3/4" x 3/8", 12FDU06	24011	124	2
48	8	Bushing, 3/4" I.D. x 1/2"	900-0456	125	2
49	2	Washer, 5/16", Lock	10068	126	1
50	1	Rivet, Pop, SD6BSLF-3/16"-38/.50"	15244	127	3
51	2	Gas Spring, Fold Arm	29186	128	2
52	2	Ball Stud, Gas Spring, 13mm x 3/8-16 Female	29185	129	4
53	2	Clip, Safety	12608	130	2
54	2	Bracket, Inner Side Panel Guide	915-0703	131	2
55	1	Bracket, Mounting, Quiet-Ride	915-0392	132	4
56	6	Bolt, 3/8-16 x 3/4", Flanged Button Hd. Socket Cap, Bk.	25171	133	3
57	2	Stow Block, Guided	28593	134	6
58	2	Bolt, 5/16-18 x 3/4", Carriage, Black	15858BK	135	1
59	4	Nut, 5/16-18, Hex	10058	136	1
60	2	Arm, Slide Support	915-7412	137	4
61	10	Bearing, Flange, 3/4" x 1/4"	24012	138	4
62	2	Slide, Platform, Rotate, Weldment	915-0406W	139	2
63	4	Bearing, UHMW, Flat, 1.226"	205-1760	140	4
64	2	Pin, Pivot, Lower Arm	900-0413	141	2
65	10	Ring, Snap, 3/4", External	18657	142	2
66	2	Spacer, 1/2" O.D. x .334" I.D. x 1.515"	25132	143	2
67	2	Bolt, 5/16-18 x 2", Flange, Hex	25130	144	2
68	2	Nut, 5/16-18, Serrated Flange	25131	145	1
69	4	Spacer, Handrail-UHMW	911-5301	146	1
70	2	Bolt, 7/16-20 x 1", Hex	15746	147	3
71	2	Grip, Handle, Yellow	19074	148	2
72	6	Bumper, Rubber, 31/32" O.D.	10950	149	2
73	2	Screw, #8-18 x 1/2", Self-Tap, Phillips	13583	150	2
74	2	Pin, Pivot, Handrail	900-0429	151	2
75	2	Screw, #4-40 x 5/8", Round Head	14810	152	2
76	1	Cover, Plastic, Parallel Arm, Fr - w/Tape	915-3704A	153	1
77	1	Cover, Plastic, Parallel Arm, Fr, Inside - w/Tape	915-3701A	154	3
78	1	Cover, Plastic, Parallel Arm, Rr, Inside - w/Tape	915-3703A	155	1
79	1	Cover, Plastic, Parallel Arm, Rr - w/Tape	915-3702A	156	1
80	2	Clip, Cable, 7/16", Plastic	15777	157	1
81	1	Clamp, Insulated, 5/8" I.D.	84070	158	1
82	4	Washer, #10 Flat	11541	159	1
83	7	Rivet, Snap, Black, .256/.295" Thick	26362	160	1
84	3	Rivet, Pop, SD64BS- 3/16"	11513	161	5
85	2	Bolt, 5/16-18 x 1 1/4", Low Soc. Hd. Cap Scr., Bk.	26327	162	1
86	4	Bolt, 1/4-20 x 3/4", Flat Head, Soc. Cap	18708		
87	1	Screw, #8-32 x 1", Mach. Truss Head, Black	19912BK		

42" Floor-To-Ground Automatic Inboard Roll Stop IB Lift Models Exploded View



48" Floor-To-Ground Automatic Inboard Roll Stop IB Lift Models Exploded View

Unfold for:
42" Floor-To-Ground
Automatic Inboard
Roll Stop IB Lift Models
Exploded View

Note: L916 lift models are equipped with a longer Quiet-Ride bracket on the right (front) side.

Note: L916 platforms have a modified right (front) side plate.

Series 07

- L916IB
- L916FIB
- L917IB
- L917FIB
- L919IB
- L919FIB

Note: Illustrations depict components as equipped when specified lift series was in production. Replacement components may reflect newer lift series configurations.

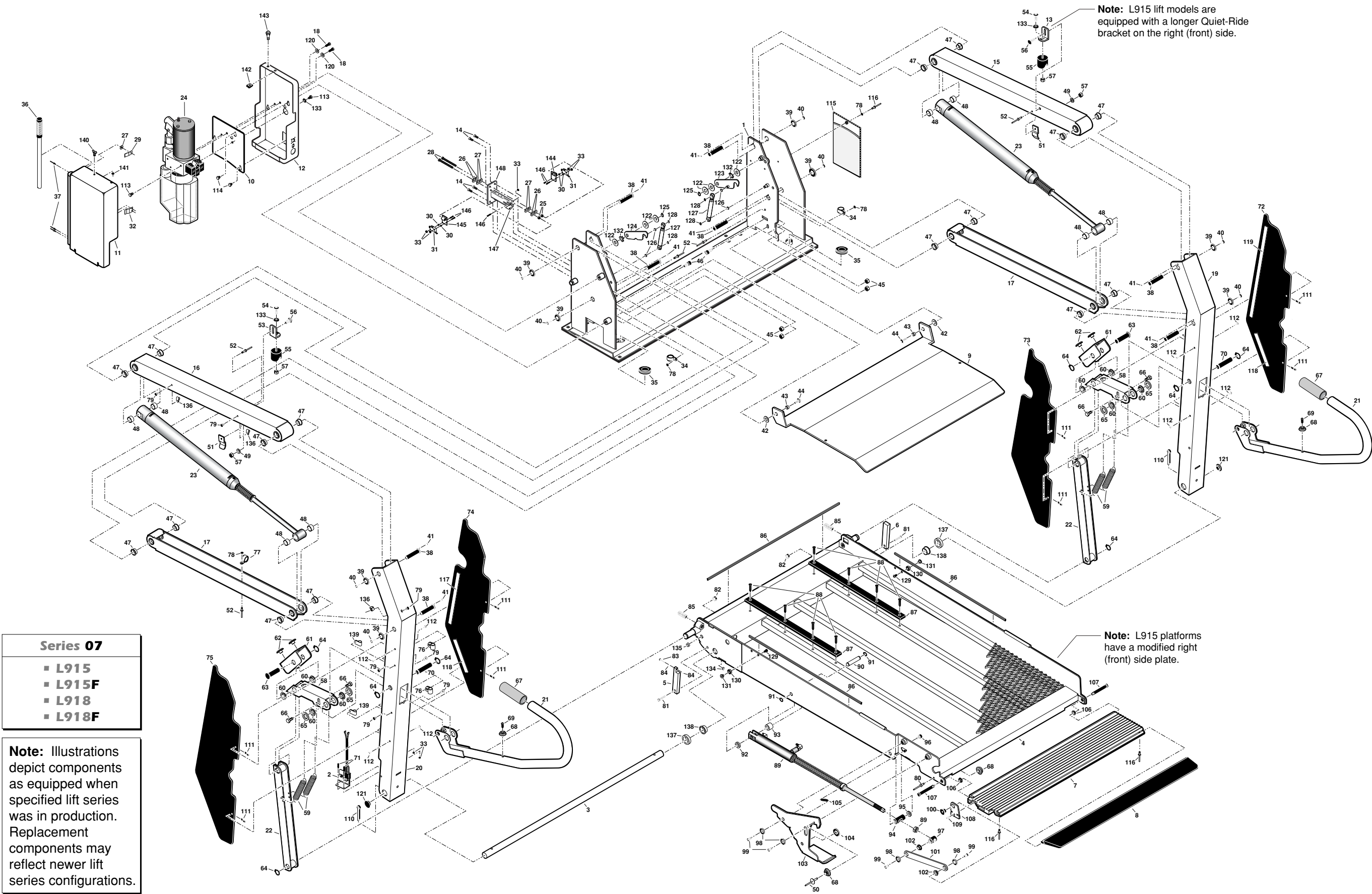
48" Floor-To-Ground Automatic Inboard Roll Stop IB Lift Models Repair Parts List

Part Numbers of Items Dedicated per Lift Model								
Item	Qty.	Description	L916IB	L916FIB	L917IB	L917FIB	L919IB	L919FIB
1	1	Base Plate Weldment	916R7148W30	916F7148W30	917R7148W33	917F7148W33	919R7148W34	919F7148W34
2	1	Pin, Platform Pivot	915U032430	915U032430	911-5324	911-5324	911-5324-31	911-5324-31
3	1	Platform Weldment	915R63050IBW	915R63050IBW	917R63350IBW	917R63350IBW	919R63450IBW	919R63450IBW
4	1	Block, Platform Stop - Bridging - Rear	25777R	915-0311	25777R	915-0311	25777R	915-0311
5	1	Block, Platform Stop - Bridging - Front	915-0311	25777F	915-0311	25777F	915-0311	25777F
6	1	Roll Stop (Extruded Aluminum)	915R4312-30	915R4312-30	915R4312-33	915R4312-33	915R4312-34	915R4312-34
7	1	Roll Stop Nose, Rubber	24603-30	24603-30	24603-33	24603-33	24603-34	24603-34
8	1	Bridge Plate	915U0146IB	915U0146IB	915U0147IB	915U0147IB	915U0147IB-34	915U0147IB-34
9	1	Plate, Backing/Mounting-Pump Module	975R0501	975F0501	975R0501	975F0501	975R0501	975F0501
10	1	Pump Cover, 2Pc., Top-Front Assy.	915R5513TA	915F5513TA	915R5513TA	915F5513TA	915R5513TA	915F5513TA
11	1	Pump Cover, 2Pc., Back-Bottom	915R5513B	915F5513B	915R5513B	915F5513B	915R5513B	915F5513B
12	1	Bridge Switch Assembly	25463RA	25463FA	25463RA	25463FA	25463RA	25463FA
13	1	Bracket, Mounting, Quiet-Ride	995-2392	995-2392	915-2392	915-2392	915-2392	915-2392
Part Numbers of Items Identical on All Lift Models								
Item	Qty.	Description	Part No.	Item	Qty.	Description	Part No.	
14A	1	Parallel Arm Weldment, Top, Rear	915-0437R	92	1	Pin, Platform Cylinder	915-0414	
14B	1	Parallel Arm Assembly, Top, Rear (w/Flanged Bearings)	915-0437RA	93	2	Ring, Snap, 1/2", External, .035" Thick	20946	
15A	2	Parallel Arm Weldment, Bottom,	975-0458W	94	1	Spacer, Flap Cylinder, .184" Thick	915-0416	
15B	2	Parallel Arm Assembly, Bottom, (w/Flanged Bearings)	975-0458A	95	1	Spacer, Flap Cylinder, .700" Thick	915-0415	
16	2	Bolt, 3/8-16 x 2" Hex Head Cap	10027	96	1	Pivot, Roll Stop Cylinder, Front	990-0352	
17	1	Vertical Channel Weldment, Front	955F2448IBW	97	1	Washer, .4" I.D. x .810" O.D. x .12"	24536	
18	1	Vertical Channel Weldment, Rear	955R2448IBW	98	1	Bolt, 3/8-16 x 3/4", Soc. Hd. Cap Screw, Bk.	26259	
19	2	Handrail Weldment, ADA	916-0409WIB	99	1	Adapter, Cylinder/Roll Stop Lever	915-0344	
20	1	Tube Wmt., Upper Fold Arm, Rear	916-0425RW	100	4	Adapter, Cylinder/Roll Stop Lever-Out	990-0341	
21	2	Tube Wmt., Lower Fold Arm	916-0426RW	101	4	Screw, #10-32 x 3/8", Flat Head, Hex	24537	
22	1	Tube Wmt., Upper Fold Arm, Front	916-2425FW	102	1	Pivot, Roll Stop Lever	24550	
23	2	Cylinder	C1514.3-9408	103	1	Lever, Roll Stop Latch (Assembly #915-0345A)	915-0345	
24	2	Lever, Inboard Barrier, Wmt.	975-0404	104	4	Bearing, Flange, 1/2" x 1/4"	24442	
25	2	Clip, Cable, 1/2", Plastic	10092	105	1	Latch, Roll Stop	915-0343R	
26	2	Nut, 3/8-16, Hex, Lock	13617	106	1	Spacer, UHMW, Latch	950-7760	
27	3	Clamp, 1/4" ID, Nylon Loop, BLK	84396	107	1	Spring, 1/4" x 1" Extension w/Hooks	10774	
28	1	Pump Assembly (M268 with Backup Pump)	25597A12V-A6	108	2	Bearing, Flange, 3/8" x 1/4"	24028	
29	2	Nut, 1/4-20, Nylock	14614	109	2	Pin, Clevis, 3/8" x 3", Black	24932BK	
30	10	Washer, 1/4" Flat	10062	110	1	Tab, Roll Stop, Flap Cylinder	915-2367	
31	5	Washer, 1/4" I.D. x 11/16" x .030" - Nylon	12690	111	1	Screw, 10-32 x 5/8", Pan Head Phillips, Thd. Cut	26714	
32	2	Bolt, 1/4-20 x 5", Hex, All Thread	29083	112	1	Bridge Plate Bracket, Weldment, Front	916-5431FW	
33	2	Washer, 3/8" Lock	10069	113	1	Bridge Plate Bracket, Weldment, Rear	916-5431RW	
34	4	Bushing, Microswitch	911-7125	114A	1	Parallel Arm Weldment, Top, Front	915-0437F	
35	2	Microswitch, Floor Level, Cupped	23184	114B	1	Parallel Arm Assembly, Top, Front (w/Flanged Bearings)	915-0437FA	
36	2	Bolt, 5/16-18 x 3/4" Nylock	29608	115	6	Washer, 3/8", Lock, Black	10069BK	
37	7	Nut, #4-40 with Lock Washer	19537	116	4	Nut, 3/8-16, Hex, Lock, Black	13617	
38	2	Clamp, Insulate, 1 3/8" I.D.	29765	117	2	Washer, .516" I.D. x .750" O.D. x .0250"	25336	
39	5	Rivet, Pop, SD66BS - 3/16"	14993	118	2	Washer, 3/8", Flat, Auto/BK	10064	
40	2	Grommet, Rubber, 1.25" I.D.	25916	119	2	Washer, .060" x .76" x 1.25" O.D., Auto/BK	27734	
41	1	Handle, Pump (w/Grip)	17206A	120	4	Ring, Snap, 1/2", External, .050" Thick	13273	
42	1	Handle Clip, Top	915-5517	121	2	Cotter Pin, 1/4" x 2", Black	15886BK	
43	8	Pin, Pivot Parallel Arm	917-0403	122	8	Fastener, J-Nut, #10-24	25776	
44	8	Washer, 1/2" Flat, Black Zinc	25346	123	8	Screw, #10-24 x 1/2", Button Head, Allen	25842	
45	8	Screw, 5/16-18 x 3/4", SHFS	25527	124	2	Bolt, 5/16-18 x 1/2", Nylock, Hex	10012	
46	8	Screw, Drive #8 x 3/16" Long, Black	24439BK	125	2	Bolt, 3/8-16 x 3/8", Nylock, Hex	29729	
47	16	Bearing, Flange, 3/4" x 3/8", 12FDU06	24011	126	1	Holder, Owner's Manual - Clear	25715	
48	8	Bushing, 3/4" I.D. x 1/2"	900-0456	127	3	Rivet, Pop, SD62BS-3/16"-.067".13"	11512	
49	4	Washer, 5/16", Lock	10068	128	2	Tape, 1" Wide Single Face Foam x 11" (1 Shown)	82015R011	
50	1	Rivet, Pop, SD68BSLF-3/16"-.387".50"	15244	129	4	Tape, 1" Wide Single Face Foam x 8" (2 Shown)	82015R008	
51	2	Gas Spring, Fold Arm	29186	130	2	Tape, 1" Wide Single Face Foam x 14" (1 Shown)	82015R014	
52	2	Ball Stud, Gas Spring, 13mm x 3/8-16 Female	29185	131	2	Washer, 5/16" Flat	10063	
53	2	Clip, Safety	12608	132	4	Cap, End, 1" I.D. x 1 1/4" O.D., Plastic	20474	
54	2	Bracket, Inner Side Panel Guide	915-0703	133	3	Washer, 5/16", External Tooth	13638	
55	1	Bracket, Mounting, Quiet-Ride	915-0392	134	8	Washer, .516" I.D. x 1" O.D. x .0269"	15328	
56	6	Bolt, 3/8-16 x 3/4", Flanged Button Hd. Socket Cap, Bk.	25171	135	1	Latch Weldment, Front	27013FW	
57	2	Stow Block, Guided	28593	136	1	Latch Weldment, Rear	27013RW	
58	2	Bolt, 5/16-18 x 3/4", Carriage, Black	15858BK	137	4	Spacer, I.B. Gas Spring	29460	
59	4	Nut, 5/16-18, Hex	10058	138	4	O-Ring, 5/16" I.D. x 1/16"	26614	
60	2	Arm, Slide Support	915-7412	139	2	Spring, Dampener, Retract	26963	
61	10	Bearing, Flange, 3/4" x 1/4"	24012	140	4	Ring, External Snap, 5/16"	24570	
62	2	Slide, Platform, Rotate, Weldment	915-0406W	141	2	Bolt, 1/4-20 x 1/2", Button Head Socket	15733	
63	4	Bearing, UHMW, Flat, 1.226"	205-1760	142	2	Roller Assembly	1000-2395A	
64	2	Pin, Pivot, Lower Arm	900-0413	143	2	Roller Retainer	915-5353	
65	10	Ring, Snap, 3/4", External	18657	144	4	Washer, Finger Disc Springs	27276	
66	2	Spacer, 1/2" O.D. x .334" I.D. x 1.515"	25132	145	2	Pivot, Bridge plate Lever, Upper, Outer	916-5434	
67	2	Bolt, 5/16-18 x 2", Flange, Hex	25130	146	2	Pivot, Bridge plate Lever, Upper, Inside	916-5433	
68	2	Nut, 5/16-18, Serrated Flange	25131	147	3	Bearing, UHMW Flat, Thin, BK	916-5406	
69	4	Spacer, Handrail - UHMW	911-5301	148	2	Bumper, .75" x .625", 5/16-18 THD	915-0391	
70	2	Bolt, 7/16-20 x 1", Hex	15746	149	2	Bolt, 5/16-18 x 3/4" Hex	13890	
71	2	Grip, Handle, Yellow	19074	150	2	Bolt, 3/8-16 x 1" Hex, Auto/BK	10025	
72	4	Bumper, Rubber, 31/32" O.D.	10950	151	1	Grommet, ID-.281", FR-.125", GD-.625", T-.375"	27725	
73	2	Screw, #8-18 x 1/2", Self-Tap, Phillips	13583	152	1	Grommet, ID-.312", FR-.250", GD-.813", T-.500"	27726	
74	2	Pin, Pivot, Handrail	900-0429	153	2	Spacer, UHMW, Vertical Channel	995-0320	
75	2	Screw, #4-40 x 5/8", Round Head	14810	154	2	Bearing, Flange, 1" x 1/2", 16FDU08	28031	
76	1	Cover, Plastic, Parallel Arm, Fr - w/Tape	915-3704A	155	2	Nut, 5/16-18, Top Lock, Black	28324BK	
77	1	Cover, Plastic, Parallel Arm, Fr, Inside - w/Tape	915-3701A	156	2	Bolt, 5/16-18 x 3/4", Button Hd. Socket Cap, Bk.	24440	
78	1	Cover, Plastic, Parallel Arm, Rr, Inside - w/Tape	915-3703A	157	3	Rivet, Pop, 1/8"-13"/.19"	12954	
79	1	Cover, Plastic, Parallel Arm, Rr - w/Tape	915-3702A	158	1	Stud, Wing Head	28804	
80	2	Clip, Cable, 7/16", Plastic	15777	159	1	Retainer, Push-On	28805	
81	1	Clamp, Insulated, 5/8" I.D.	84070	160	1	Receptacle, Clip-On	28803	
82	4	Washer, #10 Flat	11541	161	1	Diode, Green LED, Panel Mount	29545	
83	7	Rivet, Snap, Black, .256/.295" Thick	26362	162	1	Weldment, Microswitch, Slide Adjust, Front	990-2119WF	
84	1	Rivet, Pop, SD64BS - 3/16"	11513	163	1	Weldment, Microswitch, Slide Adjust, Rear	990-2119WR	
85	2	Bolt, 5/16-18 x 1 1/4", Low Soc. Hd. Cap Scr., Bk.	26327	164	5	Screw, #4-40 x 3/4" RD. HD.	11483	
86	1	Handle Clip, Bottom	915-5518	165	1	Spacer, .125" I.D. x .250" O.D. x .375"	990-7125	
87	1	Screw, #8-32 x 1", Mach. Truss Head, Black	19912BK	166	1	Weldment, Microswitch Bracket	975-0120W	
88	2	Nut, #8-32, Hex	10777	167	4	Bolt, 1/4-20 x 3/4", Flat Head, Socket Cap	18708	
89	2	Screw, 1/2-20 x 1 1/2", Set, Lock	18663					
90	2	Edge Liner, 1/8" U-Molding, Yellow	24045R025.75					
91	1	Cylinder, Roll Stop, Assembly	915-5318A					

42" Floor-To-Ground Fixed Inboard Roll Stop Non-IB Lift Models Repair Parts List

Part Numbers of Items Dedicated per Lift Model							
Item	Qty.	Description	L915	L915F	L918	L918F	
1	1	Base Plate Weldment	915R7142W30	915F7142W30	918R7142W33	918F7142W33	
2	1	Bridge Switch Assembly	25463RA	25463FA	25463RA	25463FA	
3	1	Pin, Platform Pivot	915U032430	915U032430	911-5324	911-5324	
4	1	Platform Weldment	915R63050W	915R63050W	915R63350W	915R63350W	
5	1	Block, Platform Stop - Bridging - Rear	25778	900-0311	25778	900-0311	
6	1	Block, Platform Stop - Bridging - Front	900-0311	25778	900-0311	25778	
7	1	Roll Stop (Extruded Aluminum)	915R4312-30	915R4312-30	915R4312-33	915R4312-33	
8	1	Roll Stop Nose, Rubber	24603-30	24603-30	24603-33	24603-33	
9	1	Bridge Plate	915U0145	915U0145	915U0148	915U0148	
10	1	Plate, Backing/Mounting-Pump Module	975R0501	975F0501	975R0501	975F0501	
11	1	Pump Cover, 2Pc, Top-Front Assy.	915R5513TA	915F5513TA	915R5513TA	915F5513TA	
12	1	Pump Cover, 2Pc, Back-Bottom	915R5513B	915F5513B	915R5513B	915F5513B	
13	1	Bracket, Mounting, Quiet-Ride	995-2392	995-2392	915R0392	915F0392	
Part Numbers of Items Identical on All Lift Models							
Item	Qty.	Description	Part No.	Item	Qty.	Description	Part No.
14	4	Bolt, 1/4-20 x 3/4", Flat Head, Soc Cap	18708	80	1	Rivet, Pop, SD64BS - 3/16"	11513
15A	1	Parallel Arm Weldment, Top, Front	915-0422F	81	2	Bolt, 5/16-18 x 1 1/4", Low Soc. Hd. Cap Scr., Bk.	26327
15B	1	Parallel Arm Assembly, Top, Front (w/Flanged Bearings)	915-0422FA	82	2	Nut, 5/16-18, Top Lock, Black	28324BK
16A	1	Parallel Arm Weldment, Top, Rear	915-0422R	83	1	Screw, #8-32 x 1", Mach. Truss Head, Black	19912BK
16B	1	Parallel Arm Assembly, Top, Rear (w/Flanged Bearings)	915-0422RA	84	2	Nut, #8-32, Hex	10777
17A	1	Parallel Arm Weldment, Bottom	975-0457W	85	2	Screw, 1/2-20 x 1 1/2", Set, Lock	18663
17B	1	Parallel Arm Assembly, Bottom (w/Flanged Bearings)	975-0457A	86	3	Edge Liner, 1/8" U-Molding, Yellow	24045R025.75
18	2	Bolt, 5/16-18 x 3/4" Nylock	29608	87	2	Slide, Platform, UHMW	900-0320
19	1	Vertical Channel Weldment, Front	955F2442W	88	8	Screw, #8-18 x 1" Wafer Head, Self-Tap	14549
20	1	Vertical Channel Weldment, Rear	955R2442W	89	1	Cylinder, Roll Stop, Assembly	915-5318A
21	2	Handrail Weldment, ADA	915-0409W	90	1	Pin, Platform Cylinder	915-0414
22	2	Platform Pivot Arm Weldment	915-0424W	91	2	Ring, Snap, 1/2", External, .035" Thick	20946
23	2	Cylinder	C1514.3-9407	92	1	Spacer, Flap Cylinder, .184" Thick	915-0416
24	1	Pump Assembly (M268 with Backup Pump)	25597A12V-A6	93	1	Spacer, Flap Cylinder, .700" Thick	915-0415
25	2	Nut, 1/4-20, Nylock	14614	94	1	Pivot, Roll Stop Cylinder, Front	990-0352
26	4	Washer, 1/4" Flat	10062	95	1	Washer, .4" I.D. x .810" O.D. x .12"	24536
27	5	Washer, 1/4" I.D. x 11/16" x .030" - Nylon	12690	96	1	Bolt, 3/8-16 x 3/4", Soc. Hd. Cap Screw, Bk.	26259
28	2	Bolt, 1/4-20 x 5", Hex, All Thread	29083	97	1	Adapter, Cylinder/Roll Stop Lever	915-0344
29	1	Handle Clip, Top	915-5517	98	4	Adapter, Cylinder/Roll Stop Lever-Out	990-0341
30	4	Bushing, Microswitch	911-7125	99	4	Screw, #10-32 x 3/8", Flat Head, Hex	24537
31	2	Microswitch, Floor Level, Cupped	23184	100	1	Pivot, Roll Stop Lever	24550
32	1	Handle Clip, Bottom	915-5518	101	1	Lever, Roll Stop Latch (Assembly #915-0345A)	915-0345
33	7	Nut, #4-40 with Lock Washer	19537	102	2	Bearing, Flange, 1/2" x 1/4"	24442
34	2	Clamp, Insulate, 1-3/8" I.D.	29765	103	1	Latch, Roll Stop	915-0343R
35	2	Grommet, Rubber, 1.25" I.D.	25916	104	1	Spacer, UHMW, Latch	950-7760
36	1	Handle, Pump (w/Grip)	17206A	105	1	Spring, 1/4" x 1" Extension w/Hooks	10774
37	3	Rivet, Pop, 1/8"-13", 19"	12954	106	2	Bearing, Flange, 3/8" x 1/4"	24028
38	8	Pin, Pivot Parallel Arm	917-0403	107	2	Pin, Clevis, 3/8" x 3", Black	24932BK
39	8	Washer, 1/2" Flat, Black Zinc	25346	108	1	Tab, Roll Stop, Flap Cylinder	915-2367
40	8	Screw, 5/16-18 x 3/4", SHFS	25527	109	1	Screw, 10-32 x 5/8", Pan Head Phillips, Thd. Cut	26714
41	8	Screw, Drive #8 x 3/16" Long	24439BK	110	2	Cotter Pin, 1/4" x 2", Black	15886BK
42	2	Washer, 14 Ga. Whale Pin	205-1791	111	8	Fastener, J-Nut, #10-24	25776
43	2	Bearing, 1/2" O.D. x 3/8" I.D. x .150" Long	955-0102	112	8	Screw, #10-24 x 1/2", Button Head, Allen	25842
44	2	Bolt, 3/8-16 x 3/4", Flanged, Button Head	25171	113	2	Bolt, 5/16-18 x 1/2", Nylock, Hex	10012
45	4	Nut, 3/8-16 Top Lock, Black	28339BK	114	2	Bolt, 3/8-16 x 3/8", Nylock, Hex	17633
46	2	Bolt, 3/8-16 x 3/4", Socket Head, Cap, Black	26259	115	1	Holder, Owner's Manual - Clear	25715
47	16	Bearing, Flange, 3/4" x 3/8", 12FDU06	24011	116	3	Rivet, Pop, SD62BS-3/16"- .06"/.13"	11512
48	8	Bushing, 3/4" I.D. x 1/2"	900-0456	117	2	Tape, 1" Wide Single Face Foam x 11" (1 Shown)	82015R011
49	2	Washer, 5/16", Lock	10068	118	4	Tape, 1" Wide Single Face Foam x 8" (2 Shown)	82015R008
50	1	Rivet, Pop, SD68BSLF-3/16"- .38"/.50"	15244	119	2	Tape, 1" Wide Single Face Foam x 14" (1 Shown)	82015R014
51	2	Bracket, Inner Side Panel Guide	915-0703	120	2	Washer, 5/16" Flat	10063
52	5	Rivet, Pop, SD66BS - 3/16"	14993	121	2	Cap, End, 1" I.D. x 1 1/4" O.D., Plastic	20474
53	1	Bracket, Mounting, Quiet-Ride	915-0392	122	6	Washer, .516" I.D. x 1" O.D. x .0269"	15328
54	2	Bolt, 5/16-18 x 3/4", Button Hd. Socket Cap, Bk.	24440	123	1	Latch Weldment, Front	27013FW
55	2	Stow Block, Guided	28593	124	1	Latch Weldment, Rear	27013RW
56	2	Bolt, 5/16-18 x 3/4", Carriage, Black	15858BK	125	2	Ring, External Snap, Lock, 1/2"	13273
57	4	Nut, 5/16-18, Hex	10058	126	4	O-Ring, 5/16" I.D. x 1/16"	26614
58	2	Arm, Slide Support	915-0411	127	2	Spring, Dampener, Retract	26963
59	4	Spring, 3/4" x 5/12" Extension with Hooks	24281	128	4	Ring, External Snap, 5/16"	24570
60	8	Bearing, Flange, 3/4" x 1/4"	24012	129	2	Bolt, 1/4-20 x 1/2", Button Head Socket	15733
61	2	Slide, Platform, Rotate	915-0407	130	2	Roller Assembly	1000-2395A
62	4	Bearing, UHMW, Flat, 1.226"	205-1760	131	2	Roller Retainer	915-5353
63	2	Pin, Pivot, Lower Arm	915-0413	132	2	Washer, Finger Disc Springs	27276
64	8	Ring, Snap, 3/4", External	18657	133	3	Washer, 5/16" External Tooth	16368
65	4	Spacer, Handrail, UHMW	911-5301	134	1	Grommet, ID-.281", FR-.125", GD-.625", T-.375"	27725
66	4	Bolt, 3/8-16 x 3/4", Hex	12463	135	1	Grommet, ID-.312", FR-.250", GD-.813", T-.500"	27726
67	2	Grip, Handle, Yellow	19074	136	3	Clamp, 1/4" ID, Nylon Loop, BLK	84396
68	4	Bumper, Rubber, 31/32" O.D.	10950	137	2	Spacer, UHMW, Vertical Channel	995-0320
69	2	Screw, #8-18 x 1/2", Self-Tap, Phillips	13583	138	2	Bearing, Flange, 1" x 1/2", 16FDU08	28031
70	2	Pin, Pivot, Handrail	900-0429	139	2	Clip, Cable, 1/2", Plastic	10092
71	2	Screw, #4-40 x 5/8", Round Head	14810	140	1	Stud, Wing Head	28804
72	1	Cover, Plastic, Parallel Arm, Fr - w/Tape	915-3704A	141	1	Retainer, Push-On	28805
73	1	Cover, Plastic, Parallel Arm, Fr, Inside - w/Tape	915-3701A	142	1	Receptacle, Clip-On	28803
74	1	Cover, Plastic, Parallel Arm, Rr, Inside - w/Tape	915-3703A	143	1	Diode, Green LED, Panel Mount	29545
75	1	Cover, Plastic, Parallel Arm, Rr - w/Tape	915-3702A	144	1	Weldment, Microswitch, Slide Adjust, Front	990-2119WF
76	2	Clip, Cable, 7/16", Plastic	15777	145	1	Weldment, Microswitch, Slide Adjust, Rear	990-2119WR
77	1	Clamp, Insulated, 5/8" I.D.	84070	146	5	Screw, #4-40 x 3/4" RD. HD.	11483
78	4	Washer, #10 Flat	11541	147	1	Spacer, .125" I.D. x .250" O.D. x .375"	990-7128
79	7	Rivet, Snap, Black, .256/.295" Thick	26362	148	1	Weldment, Microswitch Bracket	975-0120W

42" Floor-To-Ground Fixed Inboard Roll Stop Non-IB Lift Models Exploded View



48" Floor-To-Ground Fixed Inboard Roll Stop Non-IB Lift Models Exploded View

Unfold for:
42" Floor-To-Ground
Fixed Inboard Roll Stop
Non-IB Lift Models
Exploded View

Note: L916 lift models are equipped with a longer Quiet-Ride bracket on the right (front) side.

Note: L916 platforms have a modified right (front) side plate.

Series 07

- L916
- L916F
- L917
- L917F
- L919
- L919F

Note: Illustrations depict components as equipped when specified lift series was in production. Replacement components may reflect newer lift series configurations.

48" Floor-To-Ground Fixed Inboard Roll Stop

Non-IB Lift Models Repair Parts List

Part Numbers of Items Dedicated per Lift Model								
Item	Qty.	Description	L916	L916F	L917	L917F	L919	L919F
1	1	Base Plate Weldment	916R7148W30	916F7148W30	917R7148W33	917F7148W33	919R7148W34	919F7148W34
2	1	Bridge Switch Assembly	25463RA	25463FA	25463RA	25463FA	25463RA	25463FA
3	1	Pin, Platform Pivot	915U032430	915U032430	911-5324	911-5324	911-5324-31	911-5324-31
4	1	Platform Weldment	915R63050W	915R63050W	915R63350W	915R63350W	919R63450W	919R63450W
5	1	Block, Platform Stop - Bridging - Rear	25778	900-0311	25778	900-0311	25778	900-0311
6	1	Block, Platform Stop - Bridging - Front	900-0311	25778	900-0311	25778	900-0311	25778
7	1	Roll Stop (Extruded Aluminum)	915R4312-30	915R4312-30	915R4312-33	915R4312-33	915R4312-34	915R4312-34
8	1	Roll Stop Nose, Rubber	24603-30	24603-30	24603-33	24603-33	24603-34	24603-34
9	1	Bridge Plate	915U0146	915U0146	915U0147	915U0147	915U0147-34	915U0147-34
10	1	Plate, Backing/Mounting-Pump Module	975R0501	975F0501	975R0501	975F0501	975R0501	975F0501
11	1	Pump Cover, 2Pc, Top-Front Assy.	915R5513TA	915F5513TA	915R5513TA	915F5513TA	915R5513TA	915F5513TA
12	1	Pump Cover, 2Pc, Back-Bottom	915R5513B	915F5513B	915R5513B	915F5513B	915R5513B	915F5513B
13	1	Bracket, Mounting, Quiet-Ride	995-2392	995-2392	915-0392	915-0392	915-0392	915-0392
Part Numbers of Items Identical on All Lift Models								
Item	Qty.	Description	Part No.	Item	Qty.	Description	Part No.	
14	2	Bolt, 5/16-18 x 3/4", Nylock	29608	80	1	Rivet, Pop, SD64BS - 3/16"	11513	
15A	1	Parallel Arm Weldment, Top, Front	915-0437F	81	2	Bolt, 5/16-18 x 1 1/4", Low Soc. Hd. Cap Scr., Bk.	26327	
15B	1	Parallel Arm Assembly, Top, Front (w/Flanged Bearings)	915-0437FA	82	2	Nut, 5/16-18, Top Lock, Black	28324BK	
16A	1	Parallel Arm Weldment, Top, Rear	915-0437R	83	1	Screw, #8-32 x 1", Mach. Truss Head, Black	19912BK	
16B	1	Parallel Arm Assembly, Top, Rear (w/Flanged Bearings)	915-0437RA	84	2	Nut, #8-32, Hex	10777	
17A	2	Parallel Arm Weldment, Bottom	975-0458W	85	2	Screw, 1/2-20 x 1 1/2", Set, Lock	18663	
17B	2	Parallel Arm Assembly, Bottom, (w/Flanged Bearings)	975-0458A	86	3	Edge Liner, 1/8" U-Molding, Yellow	24045R025.75	
18	1	Handle Clip, Top	915-5517	87	2	Slide, Platform, UHMW	900-0320	
19	1	Vertical Channel Weldment, Front	955F2448W	88	8	Screw, #8-18 x 1" Wafer Head, Self-Tap	14549	
20	1	Vertical Channel Weldment, Rear	955R2448W	89	1	Cylinder, Roll Stop, Assembly	915-5318A	
21	2	Handrail Weldment, ADA	916-0409W	90	1	Pin, Platform Cylinder	915-0414	
22	2	Platform Pivot Arm Weldment	915-0441W	91	2	Ring, Snap, 1/2", External, .035" Thick	20946	
23	2	Cylinder	C1514.3-9408	92	1	Spacer, Flap Cylinder, .184" Thick	915-0416	
24	1	Pump Assembly (M268 with Backup Pump)	25597A12V-A6	93	1	Spacer, Flap Cylinder, .700" Thick	915-0415	
25	2	Nut, 1/4-20, Nylock	14614	94	1	Pivot, Roll Stop Cylinder, Front	990-0352	
26	4	Washer, 1/4" Flat	10062	95	1	Washer, .4" I.D. x .810" O.D. x .12"	24536	
27	5	Washer, 1/4" I.D. x 11/16" x .030" - Nylon	12690	96	1	Bolt, 3/8-16 x 3/4", Soc. Hd. Cap Screw, Bk.	26259	
28	2	Bolt, 1/4-20 x 5", Hex, All Thread	29083	97	1	Adapter, Cylinder/Roll Stop Lever	915-0344	
29	1	Handle Clip, Bottom	915-75518	98	4	Adapter, Cylinder/Roll Stop Lever-Out	990-0341	
30	4	Bushing, Microswitch	911-7125	99	4	Screw, #10-32 x 3/8", Flat Head, Hex	24537	
31	2	Microswitch, Floor Level, Cupped	23184	100	1	Pivot, Roll Stop Lever	24550	
32	3	Rivet, Pop, 1/8" - .13"/.19"	12954	101	1	Lever, Roll Stop Latch (Assembly #915-0345A)	915-0345	
33	7	Nut, #4-40 with Lock Washer	19537	102	2	Bearing, Flange, 1/2" x 1/4"	24442	
34	2	Clamp, Insulate, 1 3/8" I.D.	29765	103	1	Latch, Roll Stop	915-0343R	
35	2	Grommet, Rubber, 1.25" I.D.	25916	104	1	Spacer, UHMW, Latch	950-7760	
36	1	Handle, Pump (w/Grip)	17206A	105	1	Spring, 1/4" x 1" Extension w/Hooks	10774	
37	1	Stud, Wing Head	28804	106	2	Bearing, Flange, 3/8" x 1/4"	24028	
38	8	Pin, Pivot Parallel Arm	917-0403	107	2	Pin, Clevis, 3/8" x 3", Black	24932BK	
39	8	Washer, 1/2" Flat, Black Zinc	25346	108	1	Tab, Roll Stop, Flap Cylinder	915-2367	
40	8	Screw, 5/16-18 x 3/4", SHFS	25527	109	1	Screw, 10-32 x 5/8", Pan Head Phillips, Thd. Cut	26714	
41	8	Screw, Drive #8 x 3/16" Long	24439BK	110	2	Cotter Pin, 1/4" x 2", Black	15886BK	
42	2	Washer, 14 Ga. Whale Pin	205-1791	111	8	Fastener, J-Nut, #10-24	25776	
43	2	Bearing, 1/2" O.D. x 3/8" I.D. x .150" Long	955-0102	112	8	Screw, #10-24 x 1/2", Button Head, Allen	25842	
44	2	Bolt, 3/8-16 x 3/4", Flanged, Button Head	25171	113	2	Bolt, 5/16-18 x 1/2", Nylock, Hex	10012	
45	4	Nut, 3/8-16 Top Lock, Black	28339BK	114	2	Bolt, 3/8-16 x 3/8", Nylock, Hex	29729	
46	2	Bolt, 3/8-16 x 3/4", Socket Head, Cap, Black	26259	115	1	Holder, Owner's Manual - Clear	25715	
47	16	Bearing, Flange, 3/4" x 3/8", 12FDU06	24011	116	3	Rivet, Pop, SD62BS-3/16"-.06"/.13"	11512	
48	8	Bushing, 3/4" I.D. x 1/2"	900-0456	117	2	Tape, 1" Wide Single Face Foam x 11" (1 Shown)	82015R011	
49	2	Washer, 5/16", Lock	10068	118	4	Tape, 1" Wide Single Face Foam x 8" (2 Shown)	82015R008	
50	1	Rivet, Pop, SD68BSLF-3/16"-.38"/.50"	15244	119	2	Tape, 1" Wide Single Face Foam x 14" (1 Shown)	82015R014	
51	2	Bracket, Inner Side Panel Guide	915-0703	120	2	Washer, 5/16" Flat	10063	
52	5	Rivet, Pop, SD66BS - 3/16"	14993	121	2	Cap, End, 1" I.D. x 1 1/4" O.D., Plastic	20474	
53	2	Bracket, Mounting, Quiet-Ride	915-0392	122	6	Washer, .516" I.D. x 1" O.D. x .0269"	15328	
54	2	Bolt, 5/16-18 x 3/4", Button Hd. Socket Cap, Bk.	24440	123	1	Latch Weldment, Front	27013FW	
55	2	Stow Block, Guided	28593	124	1	Latch Weldment, Rear	27013RW	
56	2	Bolt, 5/16-18 x 3/4", Carriage, Black	15858BK	125	2	Ring, External Snap, Lock, 1/2"	13273	
57	4	Nut, 5/16-18, Hex	10058	126	4	O-Ring, 5/16" I.D. x 1/16"	26614	
58	2	Arm, Slide Support	915-0411	127	2	Spring, Dampener, Retract	26963	
59	4	Spring, 3/4" x 5/12" Extension with Hooks	24281	128	4	Ring, External Snap, 5/16"	24570	
60	8	Bearing, Flange, 3/4" x 1/4"	24012	129	2	Bolt, 1/4-20 x 1/2", Button Head Socket	15733	
61	2	Slide, Platform, Rotate	915-0407	130	2	Roller Assembly	1000-2395A	
62	4	Bearing, UHMW, Flat, 1.226"	205-1760	131	2	Roller Retainer	915-5353	
63	2	Pin, Pivot, Lower Arm	915-0413	132	2	Washer, Finger Disc Springs	27276	
64	8	Ring, Snap, 3/4", External	18657	133	3	Washer, 5/16" External Tooth	16368	
65	4	Spacer, Handrail, UHMW	911-5301	134	1	Grommet, ID-.281", FR-.125", GD-.625", T-.375"	27725	
66	4	Bolt, 3/8-16 x 3/4", Hex	12463	135	1	Grommet, ID-.312", FR-.250", GD-.813", T-.500"	27726	
67	2	Grip, Handle, Yellow	19074	136	3	Clamp, 1/4" ID, Nylon Loop, BLK	84396	
68	4	Bumper, Rubber, 31/32" O.D.	10950	137	2	Spacer, UHMW, Vertical Channel	995-0320	
69	2	Screw, #8-18 x 1/2", Self-Tap, Phillips	13583	138	2	Bearing, Flange, 1" x 1/2", 16FDU08	28031	
70	2	Pin, Pivot, Handrail	900-0429	139	1	Retainer, Push-On	28805	
71	2	Screw, #4-40 x 5/8", Round Head	14810	140	1	Receptacle, Clip-On	28803	
72	1	Cover, Plastic, Parallel Arm, Fr - w/Tape	915-3704A	141	1	Diode, Green LED, Panel Mount	29545	
73	1	Cover, Plastic, Parallel Arm, Fr, Inside - w/Tape	915-3701A	142	1	Weldment, Microswitch, Slide Adjust, Front	990-2119WF	
74	1	Cover, Plastic, Parallel Arm, Rr, Inside - w/Tape	915-3703A	143	1	Weldment, Microswitch, Slide Adjust, Rear	990-2119WR	
75	1	Cover, Plastic, Parallel Arm, Rr - w/Tape	915-3702A	144	5	Screw, #4-40 x 3/4" R.D. H.D.	11483	
76	2	Clip, Cable, 7/16", Plastic	15777	145	1	Spacer, .125" I.D. x .250" O.D. x .325"	990-7128	
77	1	Clamp, Insulated, 5/8" I.D.	84070	146	1	Weldment, Microswitch Bracket	975-0120W	
78	4	Washer, #10 Flat	11541	147	4	Bolt, 1/4-20 x 3/4", Flat Head, Soc Cap	18708	
79	7	Rivet, Snap, Black, .256/.295" Thick	26362	148	2	Clip, Cable, 1/2", Plastic	10092	

Decals and Antiskid

Decals

The lift is only as safe as the operator.
Lift-posted decals are shown by mounting location. Part numbers are provided for all decals. Inspect your lift for any missing, worn or illegible decals. Call 1-800-THE LIFT for replacements.

⚠ WARNING

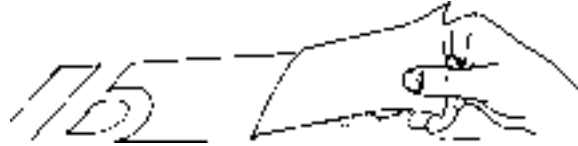
Replace missing, worn or illegible decals. Failure to do so may result in serious bodily injury and/or property damage.

Decal and Antiskid Application Procedure

Clean powder-coated surfaces (or painted surfaces) with isopropyl alcohol **before** decal or antiskid application. Use a clean cloth or paper towels. **DO NOT** use oily shop rags. Wipe surface free of residue with dry portion of cleaning cloth.

Mask Removal: Pay close attention to this mask removal procedure when posting die-cut logo decals.

To remove the masking, start an edge and peel back **slowly**, at a sharp angle directly over the top of the decal.



Non Lift-Posted Decals

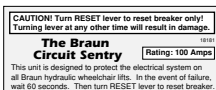


Parking Courtesy Requested Decal 12375

Actual Size:
3" W. x 4-3/4" T.

Two Courtesy Requested decals are supplied with all Braun lifts to be posted on vehicle as desired.

Circuit Sentry (100 A.) Label Decal 18181



Actual Size:
2-3/16" W. x 15/16" T.

Supplied with 100 ampere 12 volt Circuit Sentry #28910KS.



Operator's Manual Policy Warning Decal 25674

Actual Size:
1-1/2" W. x 3-1/4" T.



Posted on the lift control box as shown.

Warnings and Lift Operating Instructions Decal 27204

ADA Standee and Interlock Decal 19342



Supplied to be posted near the lift control box mounting location (lift posted also - see following page).

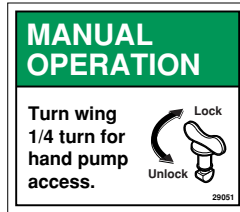
Lift-Posted Decals

Decals and Antiskid

Lift-Posted Decals



Removal Instruction,
Pump Cover
Decal 29051



Actual Size:
2-1/2" Wide x 2-1/4" Tall

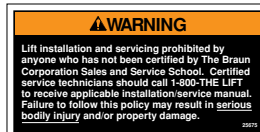


NSSB Lift Certification
Decal 24668

The Braun Corporation certifies that this wheelchair lift conforms to all applicable requirements of the National Standards for School Buses in effect at the time of its manufacture.

Actual Size:
2-3/4" W. x 1" T.

Installation and Service
Manual Policy Warning
Decal 25675

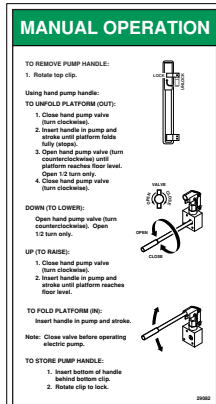


Actual Size:
4" Wide x 2" Tall

Removal, Installation,
Pump Handle
Decal 29052

Actual Size: 1-5/16" Wide x 5/8" Tall

Manual Instructions,
Hand Pump
Decal 29082

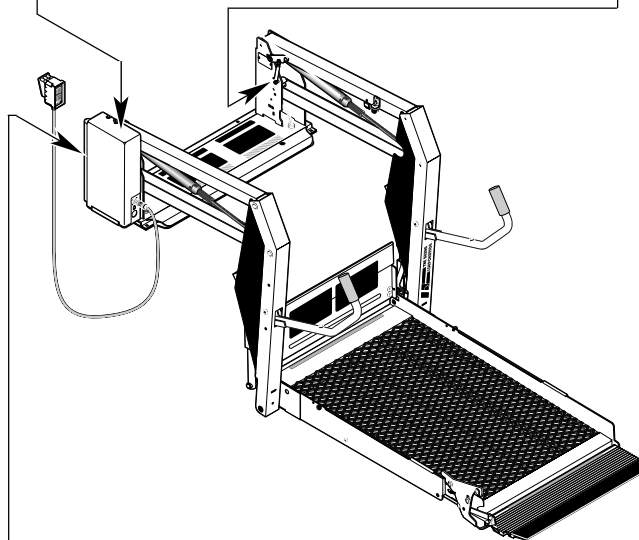


Actual Size: 4-1/2" Wide x 8-1/2" Tall

Hydraulic Pressure
Switch Adjustment
Decal 27154



Actual Size: 2-1/16" Wide x 5" Tall



Microswitch
Adjustment
Instructions
Decal 24490

Microswitch Adjustment Instructions

Unfold/Down (Outside) Microswitch

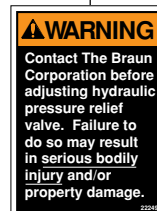
Turn adjustment bolt clockwise to stop platform unfold function sooner. Turn adjustment bolt counterclockwise to allow platform to unfold further.

Up/Fold (Inside) Microswitch

Turn adjustment bolt counterclockwise to stop platform raise function sooner. Turn adjustment bolt clockwise to allow platform to raise further.

Actual Size:
2-1/4" Wide
x
2" Tall

Warning, Relief
Valve Adjustment
Decal 22249



Actual Size:
1-5/8" Wide
x
2-1/4" Tall

Decals and Antiskid

Antiskid

⚠ WARNING

Replace missing or worn antiskid. Failure to do so may result in serious bodily injury and/or property damage.

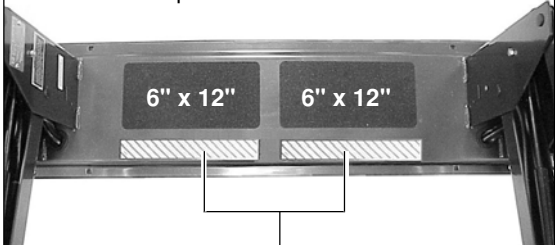
Note: Clean surfaces as detailed on page 74 **before** antiskid application.

Inspect your lift for any missing or worn antiskid. Call 1-800-THE LIFT for replacements. Use of

particular size and quantity of antiskid is dependent on lift model. Order as needed.

Antiskid		
Size	Color	Part No.
2" x 12"	Black	#24172-BK
2" x 12"	Yellow	#24172-YL
3" x 12"	Black	#24173-BK
3" x 12"	Yellow	#24173-YL
6" x 12"	Black	#24174-BK
6" x 12"	Yellow	#24174-YL

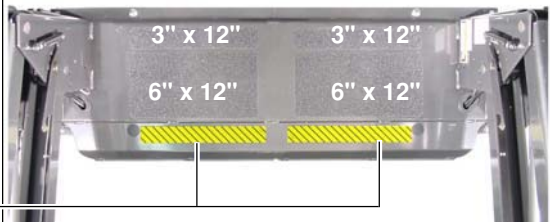
42" Floor-To-Ground Automatic Inboard Roll Stop IB Lift Models Base Plate



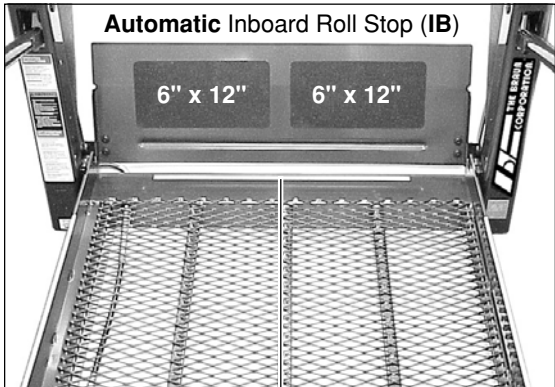
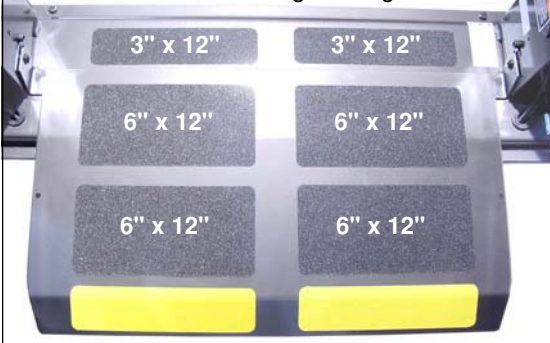
Actual Size:
12" Wide x 1-1/2" Tall

Stripes, Yellow - Lexan
Decal #24369-12

48" Floor-To-Ground Automatic Inboard Roll Stop IB Lift Models Base Plate



Fixed Inboard Roll Stop Non-IB Lift Models Base Plate and Hinged Bridge Plate



Yellow Lexan Boundry
Decal #25217

Actual Size:
24" W. x 5/8" T.



Lift Specifications

The following specifications are basic to the electrical/hydraulics operations. Further technical specifications and details of components are provided in the **Systems Descriptions** and **Troubleshooting** sections located within this manual.

Note: Lift weights applicable for rear and front pump lift models.

Lift Model	L915	L915IB	L916	L916IB	L917	L917IB	L918	L918IB	L919	L919IB
Lift Weight	332 lbs	334 lbs	351 lbs	353 lbs	360 lbs	362 lbs	342 lbs	344 lbs	363 lbs	365 lbs

- ☐ **The Lift Series Code:** See the lift-posted Serial No./Series No. Identification tag.
- ☐ **Hydraulic Pump:** M268 factory-equipped with a manual Backup Pump (hand pump).
- ☐ **Hydraulic Fluid:** Dextron III automatic transmission fluid. Further hydraulic fluid specifications are provided in the Systems Descriptions section.
- ☐ **Hydraulic Pump Pressure Relief Valve Setting:** M268 is factory set at **2100 psi**. **Note:** See Systems Descriptions for adjustment procedures.
- ☐ **Design Lifting Capacity:** 800 lbs.
- ☐ **Pump Identification Codes:** See the lift-posted Serial No./Series No. Identification tag.
- ☐ **Power Source:** 12 VDC battery with negative ground (**Standard** Lift Models). **Note:** Special applications powered by 24 volt system.

Operations Cycle Times

The performance data contained within the Operations Cycle Time Charts on page 79 provide general performance criteria. This information is compiled from tests conducted on **standard** L915 Series lift models meeting the following **constant** operational specifications.

Operational Specifications:

1. Environmental temperature of 72° F. Extremely low temperatures can moderately affect cycle time.
2. A 400 pound platform load used in all Lower and Raise operations.
3. Fully charged 12 volt DC power source. Low voltage will moderately affect test results.
4. The Length of Travel dimensions reflect the Maximum Floor-to-Ground dimension for the particular lift models specified in the Operations Cycle Time Charts. **Note:** The Length of Travel dimension will vary with differing lift installation vehicle floor heights. All figures must be calculated per your particular Length of Travel (floor-to-ground) dimension when comparing.

Operation Descriptions:

Platform Unfold (Out) - Platform unfolds from fully-stowed position to floor level position

Platform Lower - Platform only (with 400 lb. load) lowers from floor level position to fully-lowered (ground level) position

Roll Stop Unfold (Deploy) - Roll stop rotates downward from vertical position to ramp position

Roll Stop Fold (Raise) - Roll stop rotates upward from ramp position to vertical position

Platform Raise - Platform only (with 400 lb. load) raises from fully-lowered (ground level) position to floor level position (fully raised) position

Platform Fold (In) - Platform folds from floor level position to fully-stowed position

Lift Specifications

OPERATIONS CYCLE TIME CHARTS				
POWERED OPERATIONS - 42" Floor-to-Ground				
Operation	Length of Travel	Duration Minimum to Maximum	Average Duration	Average Length of Travel per Duration
Platform Unfold	Full Stroke Cycle	7.91 sec. to 10.24 sec.	9.08 sec.	Full Stroke Cycle
Platform Lower	42"	8.95 sec. to 10.89 sec.	9.92 sec.	4.23" per sec.
Roll Stop Unfold	Full Stroke Cycle	1.69 sec. to 2.30 sec.	2.0 sec.	Full Stroke Cycle
Roll Stop Fold	Full Stroke Cycle	1.65 sec. to 1.94 sec.	1.80 sec.	Full Stroke Cycle
Platform Raise	42"	13.11 sec. to 14.30 sec.	13.71 sec.	3.06" per sec.
Platform Fold	Full Stroke Cycle	3.71 sec. to 5.10 sec.	4.41 sec.	Full Stroke Cycle
MANUAL BACKUP PUMP (Hand Pump) OPERATIONS - 42" Floor-to-Ground				
Operation	Length of Travel	Duration Minimum to Maximum	Average Duration	Average Length of Travel per Duration
Platform Unfold	Full Stroke Cycle	8.0 sec. to 9.34 sec.	8.67 sec.	Full Stroke Cycle
Platform Lower	42"	18.38 sec. to 22.38 sec.	20.38 sec.	2.06" per sec.
Roll Stop Unfold	Full Stroke Cycle	1.95 sec. to 2.65 sec.	2.30 sec.	Full Stroke Cycle
Operation	Length of Travel	Number of Strokes	Average Number of Strokes	Average Length of Travel per Stroke
Roll Stop Fold	Full Stroke Cycle	9 strokes	9 strokes	Full Stroke Cycle
Platform Raise	42"	55.65 strokes to 65.42 strokes	60.54 strokes	0.69" per Stroke
Platform Fold	Full Stroke Cycle	20 strokes to 23 strokes	21.50 strokes	Full Stroke Cycle

POWERED OPERATIONS - 48" Floor-to-Ground				
Operation	Length of Travel	Duration Minimum to Maximum	Average Duration	Average Length of Travel per Duration
Platform Unfold	Full Stroke Cycle	7.91 sec. to 10.24 sec.	9.075 sec.	Full Stroke Cycle
Platform Lower	48"	10.389 sec. to 12.238 sec.	11.29 sec.	4.28" per sec.
Roll Stop Unfold	Full Stroke Cycle	1.69 sec. to 2.3 sec.	1.995 sec.	Full Stroke Cycle
Roll Stop Fold	Full Stroke Cycle	1.65 sec. to 1.94 sec.	1.795 sec.	Full Stroke Cycle
Platform Raise	48"	15.09 sec. to 16.23 sec.	15.66 sec.	3.064" per sec.
Platform Fold	Full Stroke Cycle	3.71 sec. to 5.10 sec.	4.405 sec.	Full Stroke Cycle
MANUAL BACKUP PUMP (Hand Pump) OPERATIONS - 48" Floor-to-Ground				
Operation	Length of Travel	Duration Minimum to Maximum	Average Duration	Average Length of Travel per Duration
Platform Unfold	Full Stroke Cycle	8.00 sec. to 9.34 sec.	8.67 sec.	Full Stroke Cycle
Platform Lower	48"	21.38 sec. to 25.19 sec.	23.29 sec.	2.06" per sec.
Roll Stop Unfold	Full Stroke Cycle	2.64 sec. to 2.65 sec.	2.645 sec.	Full Stroke Cycle
Operation	Length of Travel	Number of Strokes	Average Number of Strokes	Average Length of Travel per Stroke
Roll Stop Fold	Full Stroke Cycle	9 strokes	9 strokes	Full Stroke Cycle
Platform Raise	48"	64.5 strokes to 73.8 strokes	69.18 strokes	.6938" per Stroke
Platform Fold	Full Stroke Cycle	20 strokes to 23 strokes	21.5 strokes	Full Stroke Cycle

Important: All figures are approximations based on the **constant** operational specifications on page 78. When comparing cycle times, **be certain** all operational specifications have been met and you have checked the Troubleshooting Chart before reporting a service problem. Thank You.

Lift Dimensions

The chart below provides dimensions of standard production Braun Millennium Series Lift models. Refer to the illustrations on the opposite page and the chart below to determine the appropriate dimensions. Special-order lifts are available to meet user needs, but specific dimensions cannot be listed due to the many possibilities. **If in doubt, consult the factory.**

Minimum Clear Door Opening Dimensions are defined as finished door opening, including any intrusive door jambs, headers, sills or hinges. Any obstructions within the Clear Door Opening **must** be removed. See the Pre-Installation Notes for details. **Braun Bus Door Kits:** Braun Retrofit Bus Door Kits are available to provide the required clear opening dimensions.

Dimension Description		Dimension Description	
A	Clear Passageway Width: The maximum width wheelchair or object that can pass through the lift platform and frame.	F	Overall Lift Height: The overall height of the lift in the stowed position, measured from the floor to the top of the lift.
B	Clear Platform Length: The maximum usable length of platform.	G	Maximum Floor-to-Ground: The maximum distance that a lift will reach from the finished floor of the vehicle to the ground as measured vertically.
C	Clear Vertical Passageway: The maximum height wheelchair or object that can pass through the lift frame with the lift at floor level.	H	Clear Door Opening Width: The minimum clear horizontal finished (trimmed out) door opening width that the lift will pass through.
D	Minimum Clear Door Opening Height: The minimum clear vertical finished (trimmed out) door opening height that the platform will fold out of.	I	Overall Lift Width: The overall width of the entire lift.
E	Maximum Clear Door Opening Height: The maximum clear vertical finished (trimmed out) door opening height recommended.	J	Depth: Inboard edge of pump module to outermost point of lift in stowed position.

Fixed Inboard Roll Stop-Equipped (non-IB) Lift Models

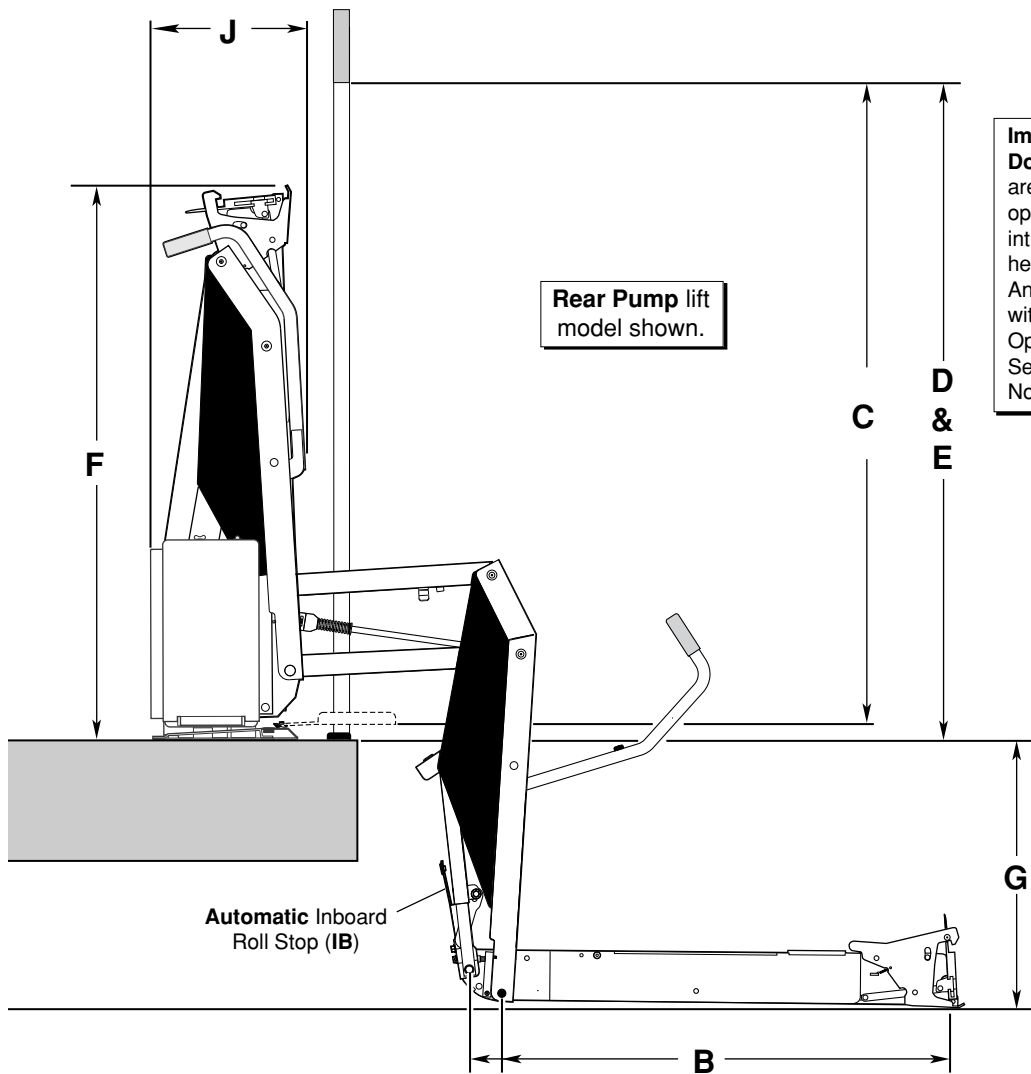
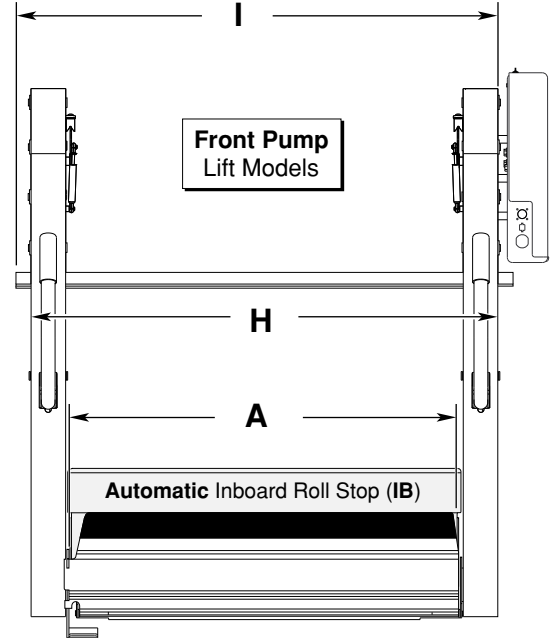
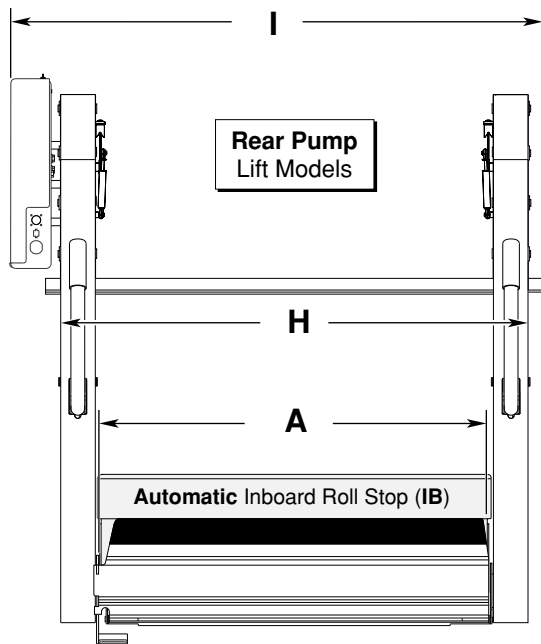
Dimension	Dimensions per Lift Model									
	L915	L915F	L916	L916F	L917	L917F	L918	L918F	L919	L919F
A Clear Passageway Width	30"	30"	30"	30"	33"	33"	33"	33"	34"	34"
B Clear Platform Length	48"	48"	48"	48"	48"	48"	48"	48"	51"	51"
C Clear Vertical Passageway	*	*	*	*	*	*	*	*	*	*
D Minimum Clear Door Opening Height	55-1/4"	55-1/4"	56-3/4"	56-3/4"	56-3/4"	56-3/4"	55-1/4"	55-1/4"	56-3/4"	56-3/4"
E Maximum Clear Door Opening Height	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
F Overall Lift Height	54-3/4"	54-3/4"	56-1/4"	56-1/4"	56-1/4"	56-1/4"	54-3/4"	54-3/4"	56-1/4"	56-1/4"
G Maximum Floor-to-Ground	42"	42"	48"	48"	48"	48"	42"	42"	48"	48"
H Clear Door Opening Width	39"	39"	39"	39"	42"	42"	42"	42"	43"	43"
I Overall Lift Width	42-1/4"	42-1/4"	42-1/4"	42-1/4"	45-1/4"	45-1/4"	45-1/4"	45-1/4"	46-1/4"	46-1/4"
J Depth	14"	14"	14"	14"	14"	14"	14"	14"	14"	14"

Automatic Inboard Roll Stop-Equipped (IB) Lift Models

Dimension	Dimensions per Lift Model									
	L915IB	L915FIB	L916IB	L916FIB	L917IB	L917FIB	L918IB	L918FIB	L919IB	L919FIB
A Clear Passageway Width	30"	30"	30"	30"	33"	33"	33"	33"	34"	34"
B Clear Platform Length	51"	51"	51"	51"	51"	51"	51"	51"	51"	51"
C Clear Vertical Passageway	*	*	*	*	*	*	*	*	*	*
D Minimum Clear Door Opening Height	55-1/4"	55-1/4"	56-3/4"	56-3/4"	56-3/4"	56-3/4"	55-1/4"	55-1/4"	56-3/4"	56-3/4"
E Maximum Clear Door Opening Height	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited	Unlimited
F Overall Lift Height	54-3/4"	54-3/4"	56-1/4"	56-1/4"	56-1/4"	56-1/4"	54-3/4"	54-3/4"	56-1/4"	56-1/4"
G Maximum Floor-to-Ground	42"	42"	48"	48"	48"	48"	42"	42"	48"	48"
H Clear Door Opening Width	39"	39"	39"	39"	42"	42"	42"	42"	43"	43"
I Overall Lift Width	42-1/4"	42-1/4"	42-1/4"	42-1/4"	45-1/4"	45-1/4"	45-1/4"	45-1/4"	46-1/4"	46-1/4"
J Depth	14"	14"	14"	14"	14"	14"	14"	14"	14"	14"

* The Clear Vertical Passageway is 1-3/8" less than the door opening height.

Lift Dimensions



Important: Minimum Clear Door Opening Dimensions are defined as finished door opening, including any intrusive doorjamb, headers, sills or hinges. Any intrusive obstructions within the Clear Door Opening **must** be removed. See the Pre-Installation Notes for further details.

Warranty and Registration Policy

Immediately upon receiving your lift, examine the unit for any damage. Notify the carrier at once with any claims.

Two warranty/registration cards (shown below) are located in the lift-mounted owner's manual storage pouch. The sales representative must process one of the cards. The consumer must fill out the other card and mail it

to The Braun Corporation. The warranty is provided on the back cover of this manual. The **warranty cards must be processed to activate the warranty.**

Two Braun Serial No./Series No. identification tags are posted on the lift. One I.D. tag (shown below) is posted on the pump side vertical arm. A second I.D. tag is located on

the opposite pump side tower. Both I.D. tags provide the product identification information appearing on the Warranty/Registration card. Record the information in the space provided below (or document on a copy).

This information must be provided when filing a warranty claim or ordering parts.

Series No. Pump Code
Model No. Serial No. Cylinder Code

OWNER'S WARRANTY / REGISTRATION	
L917IB-07-01003-35-14CG	
PURCHASED FROM _____	
OWNER _____	
NAME _____	DATE INSTALLED _____
ADDRESS _____	
CITY _____	
TELEPHONE _____	STATE _____ ZIP _____
TO VALIDATE WARRANTY REGISTRATION CARDS MUST BE RETURNED TO THE BRAUN CORPORATION.	

Sample Warranty/Registration Card

The Braun Corporation PO Box 310 Winamac, IN 46996 (574) 946-6153	
LIFT MODEL #	
L917IB	
SERIAL NUMBER	
07-01003	
PUMP CODE	CYLINDER
35	14CG
MFG DATE	
03/20/2003	
<small>PATENT PENDING 5,261,779; 6,066,824; 6,238,169</small>	

Sample Serial No./Series No. Identification Tag

Model No. _____ Pump Code _____
Series No. _____ Cylinder Code _____
Serial No. _____ Date of Manufacture _____

Note: This information **must be provided** when filing a warranty claim or ordering parts. Keep for future use.

Return Authorization Procedure

When processing any warranty claims (parts, repairs, etc.), all requests must be processed through The Braun Corporation Product Support Department. Call 1-800-THE LIFT (extension 3009) during normal working hours. Product Support will issue a Return Material Authorization (RMA) number and detail the procedures required for processing returns and/or authorizing credit.

The lift identification information is provided on the Braun Serial No./Series No. identification tag and the two warranty cards (shown above). Record the identification information in the space provided on the inside front cover of this manual for future reference. Document the identification information in the space provided in the section above also. This information must be provided when filing a warranty claim or ordering parts.

Daily Preventive Maintenance Schedule

Vehicle Number: _____

Date: _____

Inspector: _____

Pre-Trip Inspection:

Before each scheduled day of lift service, operate lift **minimum one complete cycle** and inspect each of the following :

- ☒ Does the lift interlock (if equipped) function as intended?
- ☐ Does the lift cargo door light (if equipped) function as intended?
- ☐ Does the lift deploy when the lift interlock is activated as intended?
- ☐ Does the lift safely clear the cargo door as the lift is deployed and stowed?
- ☐ Does the lift operate smoothly (no jerking or abnormal movement)?
- ☐ Does the lift operate at normal speed?
- ☐ Is the lift power source adequate?
- ☐ Does the roll stop(s) operate properly?
- ☐ Does the outboard roll stop latch operate properly?
- ☐ Do the handrails operate properly?
- ☐ Is the platform angle normal?
- ☐ Is lift operation quiet (no rattles, abnormal sounds, etc.)?
- ☐ Has the hand-held switch box cable been damaged?
- ☐ Do the lift control switches function properly?
- ☐ Do the lift cargo door securement devices function as intended?
- ☐ Is the manual backup pump handle in place?
- ☐ Is the hand pump valve closed securely (tight)?
- ☐ Are the lift-posted and door-posted decals worn, missing or illegible?
- ☐ Is the lift protective padding (if equipped) in place, worn or damaged?
- ☐ Can you visually detect any lift wear, damage, misalignment, hydraulic leaks, loose bolts, broken welds or any abnormal conditions?

Post-Trip Inspection:

Operate lift **minimum one complete cycle** and check each of the above daily pre-trip inspections **if applicable** for your daily inspection routine (outlined by your transit agency).

- ☐ Clean lift surfaces where wheelchairs travel.
- ☐ Clean and lubricate key locations based on lift usage frequency and climate conditions (outlined by your transit agency). Lubrication procedures should be performed by transit agency maintenance personnel.

Lift Installation Checklist

May 2004

Installation Date: _____	Installed By: _____
Lift Model: _____	Inspected By: _____
Lift Serial Number: _____	
Warranty/Registration card processed by: _____	Date: _____

☒ Positioning and Clearance Checklist

- ☐ Is the lift centered in the door opening with the lift base plate parallel (aligned) with the door opening (at floor level)?

Viewing the lift from outside the vehicle:

- ☐ Are the vertical arms and platform aligned and parallel with the sides of the door jamb (page 25 - points 8 and 9)? **Note:** The lift towers (upright supports) should be perpendicular (90°) to the vehicle floor.

Viewing the lift from "pump side" to "opposite pump side" of the vehicle:

- ☐ Are the vertical arms and parallel arms aligned and parallel with each other (page 25 - point 10)?
- ☐ Are the towers (upright supports) perpendicular (90°) to the vehicle floor **except when base plate wedges are used** (page 25 - point 11)?

Viewing the lift from outside the vehicle, when unfolding and folding the lift:

- ☐ Do the vertical arms and parallel arms clear the door opening (vertical sides) as the lift unfolds and folds (page 25 - points 1 and 2)?
- ☐ Is there a **minimum 1/8" clearance** between the deployed bridge plate and any obstruction on the vehicle floor (page 25 - point 4)?
- ☐ Is the floor level positioning correct (all lift models)? The bridge plate and stop blocks **must** be positioned as detailed on pages 30-32.

- ☐ Is the hydraulic platform sensor (fold) pressure switch properly adjusted (as detailed on pages 45 and 46)?

- ☐ Do the handrails operate properly (folding/unfolding) and are the handrails properly aligned (during all lift functions)?

See reverse side also

Lift Installation Checklist

May 2004

When lowering and raising the platform:

- ☐ Does the lift clear the vehicle body by a **minimum 1" clearance** (page 12 and page 25 - point 7)?
- ☐ Do the parallel arms (bottom side) clear the doorsill when the lift is fully lowered (page 25 - point 3)?
- ☐ Is the platform angle properly adjusted (pages 28 and 29), and is the floor level adjustment correct (pages 30-32)?

☒ **Installation Details Checklist**

- ☐ Is the base plate secured through the vehicle floor with eight bolts (pages 13-16)?
- ☐ Are the underfloor reinforcement brackets installed as detailed on pages 9 and 13-16?
- ☐ Are the ground cables, power cable and Circuit Sentry installed as detailed on pages 17-21?
- ☐ Is the control box mounted to door as detailed and is the control box cable routed and secured as detailed on pages 22 and 23? **Note:** Open and close door and function lift through cycles to be certain the control box and cable clear the door and other moving parts.
- ☐ Have all decals been posted on the vehicle interior door panel next to the lift control box (page 26)?
- ☐ Have any necessary Quiet-Ride adjustments been made as outlined on pages 34 and 35?
- ☐ Has the optional padding kit been installed (if applicable)?
- ☐ Is the lift owner's (operator's) manual stored in the lift-mounted manual storage pouch for the consumer?
- ☐ Has The Braun Corporation Warranty/Registration card been filled out, processed and mailed to The Braun Corporation?

See reverse side also

"Providing Access to the World"®



**Over 300 Braun
Dealers Worldwide**

 **THE BRAUN
CORPORATION®**
"Providing Access to the World"



International Corporate Hdqrs: P.O. Box 310 Winamac, IN 46996 USA
1-800-THE LIFT (574) 946-6153 FAX: (574) 946-4670

Installation/Service Manual

Series 07 **L915** Millennium Series™ Commercial Wheelchair Lifts

Braun Limited Warranty

Consult your local Braun dealer regarding warranty policy.

www.braunlift.com/international

Return Authorization Procedure

When processing any warranty claims (parts, repairs, etc.), all requests must be processed through The Braun Corporation Product Support Department. Call 1-800-THE LIFT (extension 3009) during normal working hours. Product Support will issue a Return Material Authorization (RMA) number and detail the procedures required for processing returns and/or authorizing credit.

The lift identification information is provided on the Braun Serial No./Series No. identification tag and the two warranty cards (shown on inside front cover). The lift identification information must be provided when filing a warranty claim or ordering parts.



International Corporate Hdqrs: P.O. Box 310 Winamac, IN 46996 USA
1-800-THE LIFT (574) 946-6153 FAX: (574) 946-4670



30469 May 2004

complying with

ADA Americans With Disabilities Act

All illustrations, descriptions and specifications in this manual are based on the latest product information available at the time of publication. The Braun Corporation reserves the right to make changes at any time without notice.

Patent #5,261,779

Patent #5,806,632

Patent #6,065,924

Patent #6,238,169

Patent #6,464,447

Patent #6,599,079

Patent #6,692,217

Patents Pending

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